

**TDMS No.** 99037 - 05  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/18/2010  
**Time Report Requested:** 08:56:05  
**First Dose M/F:** 06/09/03 / 06/09/03  
**Lab:** SRI

F2\_R2

**C Number:** C99037B  
**Lock Date:** 11/20/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0

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		DAY ON TEST																																					
<b>FISCHER 344 RATS MALE</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	<b>0 MG/KG</b>	6	3	6	1	6	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	3	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	4
		ANIMAL ID																				<b>males (cont...)</b>																	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hemorrhage				2																																				
Inflammation, Acute				3																																				
Perforation																																								
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Edema																																								
Inflammation, Acute																																								
Intestine Large, Colon	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Edema																																								
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																2																								
Necrosis																																								
Intestine Small, Jejunum	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus	X		X		X	X	X	X	X	X	X		X	X	X					X	X	X		X																
Clear Cell Focus	X					X				X	X		X		X															X	X									
Degeneration, Cystic			2							1	1								1			1		1												2				
Eosinophilic Focus							X				X			X	X										X															
Hepatodiaphragmatic Nodule				X																				X																

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FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																									ANIMAL ID	males (cont...)
	0 6 5 6	0 3 6 7	0 6 7 4	0 1 6 3	0 6 1 5	0 7 3 0	0 7 2 9	0 6 7 7	0 7 2 9	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 6 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0		
Infiltration Cellular, Mixed Cell Mixed Cell Focus	1				1	1			1		1		1		1				1	1			2	1			
Bile Duct, Hyperplasia Hepatocyte, Vacuolization Cytoplasmic	3		3		1	1	2	3	2	2	3	2	1	1	2	2			2	2			3	2		4	3
Mesentery Fat, Necrosis																											
Pancreas Atrophy Cyst Acinus, Hyperplasia, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands Atrophy Inflammation, Acute Duct, Hyperplasia																											
Stomach, Forestomach Edema Erosion Ulcer Epithelium, Hyperplasia																											
Stomach, Glandular Erosion Ulcer																											

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
	6	3	6	1	6	7	7	6	7	7	7	7	7	7	7	7	3	6	7	7	7	7	7	7	7		5
	5	6	7	6	1	3	2	7	2	3	3	3	0	2	2	2	5	8	3	3	3	3	3	1	4		
	6	7	4	3	5	0	9	7	9	0	0	0	2	9	9	9	6	9	0	0	0	0	0	6	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4			
Cardiomyopathy	2	1	2	2	1	1	1	2	1	1	1	1	1	2	2	1	1	1	1	1	1	2	2	2			
Thrombosis																								X			

### ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule	2					1			1					1				1	1		2	2		
Degeneration, Fatty	2	3			1			3		1	1	1				1		1	2			1	1	2
Hematopoietic Cell Proliferation			1									1												
Hyperplasia, Focal				1		2		2		1	1	1			1	2	1							
Hypertrophy, Focal			1																		2	2		
Necrosis																								1
Bilateral, Necrosis																								
Capsule, Hyperplasia															2									
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	2							1			3		4			2		2		2		2	1	2
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																								
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pigmentation	2																	1						1
Pars Distalis, Angiectasis													1											
Pars Distalis, Cyst									X															
Pars Distalis, Hyperplasia, Focal			3			3		1		1			3	1					2	2				
Pars Intermedia, Cyst														X										X
Pars Intermedia, Hyperplasia, Focal															1				2					

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FISCHER 344 RATS MALE	DAY ON TEST																							ANIMAL ID	males (cont...)	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0
0 MG/KG	6	3	6	1	6	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	0	
	5	6	7	6	1	3	2	7	2	3	3	3	0	2	2	2	5	8	3	3	3	3	1	4	0	
	6	7	4	3	5	0	9	7	9	0	0	0	2	9	9	9	6	9	0	0	0	0	6	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Thyroid Gland	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Degeneration, Cystic													1								1	2		
Ultimobranchial Cyst																							1	1
C-cell, Hyperplasia																							1	

**GENERAL BODY SYSTEM**

Tissue NOS

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+
Cyst													X											
Hyperplasia																								
Inflammation, Chronic											4		2					3					2	2
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosis																								
Inflammation, Chronic	2	1	3		2	1			2		1	2					1	2	3	1		2	2	3
Epithelium, Hyperplasia	1	1	2		1			1									2	2				1		2
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Germinal Epithelium, Atrophy																						2	2	
Interstitial Cell, Hyperplasia					1		1															2	2	1

**HEMATOPOIETIC SYSTEM**

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FISCHER 344 RATS MALE  0 MG/KG	DAY ON TEST																									ANIMAL ID	males (cont...)
	0656	0367	0674	0163	0675	0770	0776	0677	0779	0770	0776	0770	0776	0772	0779	0779	0365	0678	0773	0773	0363	0363	0363	0361	0754		
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Fibrosis																						3					
Hyperplasia								2																			
Duct, Ectasia	3		2				3				2	3	4				2	2	1	2		2	2		3	1	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperkeratosis																											
Inflammation, Granulomatous																											
Epidermis, Hyperkeratosis																											
Epidermis, Hyperplasia, Focal																											
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																											
<b>NERVOUS SYSTEM</b>																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Compression	X		X		X								X					X				X					
<b>RESPIRATORY SYSTEM</b>																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Infiltration Cellular, Histiocyte	1		1		1	1		1	1	1	1	1	1	1					1	1			1	2	1		
Inflammation, Chronic											1																
Metaplasia, Osseous			1		1																						
Alveolar Epithelium, Hyperplasia			2					2			1			1	1					1		1			3		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	
	6	3	6	1	6	7	7	6	7	7	7	7	7	7	7	7	7	3	6	7	7	7	7	7	7	5	4	0	
	5	6	7	6	1	3	2	7	2	3	3	3	0	2	2	2	5	8	3	3	3	3	3	3	1	4	0		
	6	7	4	3	5	0	9	7	9	0	0	0	2	9	9	9	6	9	0	0	0	0	0	0	6	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	2	2	2	2	2	0	males (cont...)

Foreign Body					2			2												1			1				2	
Inflammation, Chronic								1							1					2			1				2	
Goblet Cell, Hyperplasia																											2	
Respiratory Epithelium, Hyperplasia								1							1					1								

Trachea Inflammation, Acute	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
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**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cataract																												
Edema																												
Bilateral, Cataract																												
Retina, Degeneration																												
1											1																	
3																												
1																												
3																												
1																												

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Casts Granular																											
Casts Protein	1		1		1								1							1		1				1	
Cyst																											
Hydronephrosis																											
Infarct																											
Mineralization																											
Nephropathy	1	1	1																								
Artery, Thrombosis																											

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		6	3	6	1	6	7	7	6	7	7	7	7	7	7	7	7	7	3	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5
		5	6	7	6	1	3	2	7	2	3	3	3	0	2	2	2	2	5	8	3	3	3	3	3	3	1	1	6	4	0	0	0	0	0	0
	6	7	4	3	5	0	9	7	9	0	0	0	0	2	9	9	9	6	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/KG</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males  
(cont...)

Papilla, Necrosis  
 Renal Tubule, Accumulation, Hyaline Droplet

4

Urinary Bladder

+ +

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |   |    |          |
|-------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|----|----------|
|             | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0 |    |          |
| 7           | 7                     | 7 | 3 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 5 | 6 | 7 | 7 | 7 | 6        | 6 | 50 |          |
| 0           | 2                     | 2 | 7 | 2 | 2 | 4 | 2 | 7 | 2 | 2 | 3 | 7 | 3 | 4 | 1 | 2 | 7 | 3 | 3 | 1 | 3        | 3 |    | 5        |
| 4           | 9                     | 9 | 0 | 9 | 9 | 0 | 9 | 5 | 9 | 9 | 0 | 0 | 0 | 0 | 2 | 9 | 0 | 7 | 0 | 0 | 6        | 6 | 9  |          |
| ANIMAL ID   | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0  | * TOTALS |
| 0           | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0  |          |
| 0           | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0  |          |
| 2           | 2                     | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4        | 4 | 5  |          |
| 6           | 7                     | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7        | 8 | 9  | 0        |

**ALIMENTARY SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |       |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|--|
| Esophagus                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |       |  |
| Hemorrhage                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 2.0 |  |
| Inflammation, Acute          |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 2 3.0 |  |
| Perforation                  |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1     |  |
| Intestine Large, Cecum       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 48     |       |  |
| Edema                        | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 4.0 |  |
| Inflammation, Acute          | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 2.0 |  |
| Intestine Large, Colon       | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | 44     |       |  |
| Edema                        | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |        | 2 3.0 |  |
| Intestine Large, Rectum      | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | A | + | I | + | + | + | + | + | 46     |       |  |
| Intestine Small, Duodenum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 48     |       |  |
| Intestine Small, Ileum       | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | M | A      | 43    |  |
| Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 2.0 |  |
| Necrosis                     |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 1.0 |  |
| Intestine Small, Jejunum     | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | 43     |       |  |
| Liver                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |       |  |
| Basophilic Focus             | X | X | X |   | X |   |   |   | X | X | X |   | X | X |   | X |   | X | X |   | X |   |   |   | 29     |       |  |
| Clear Cell Focus             |   | X | X |   | X |   |   |   | X | X | X |   | X |   |   | X |   | X | X |   | X |   |   |   | 19     |       |  |
| Degeneration, Cystic         |   | 2 |   |   |   |   |   |   | 2 |   |   |   | 1 |   |   | 1 |   | 2 | 1 |   |   |   |   |   | 13 1.4 |       |  |
| Eosinophilic Focus           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 6      |       |  |
| Hepatodiaphragmatic Nodule   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   | X | X |   |   |   |   |   |   | 8      |       |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>0 MG/KG   | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|  | 0704        | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  |          | 0709  |       |       |       |
| ANIMAL ID  | 00026       | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046    | 00047 | 00048 | 00049 | 00050 |
| Infiltration Cellular, Mixed Cell<br>Mixed Cell Focus                        |             | 1     | 1     |       |       | 1     |       |       |       | 1     |       |       |       |       | 1     | 1     | 1     |       | 1     | 2     |          | 1     |       |       |       |
| Bile Duct, Hyperplasia<br>Hepatocyte, Vacuolization Cytoplasmic              | 3           | 1     | 2     | 1     |       | 2     | 3     | 3     |       | 1     | 2     | 3     | 4     | 2     |       |       | 2     | 3     | 4     | 3     | 3        | 2     | 2     | 2     | 2     |
| Mesentery<br>Fat, Necrosis   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |
| Pancreas<br>Atrophy<br>Cyst<br>Acinus, Hyperplasia, Focal                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |
| Salivary Glands<br>Atrophy<br>Inflammation, Acute<br>Duct, Hyperplasia       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |
| Stomach, Forestomach<br>Edema<br>Erosion<br>Ulcer<br>Epithelium, Hyperplasia |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |
| Stomach, Glandular<br>Erosion<br>Ulcer                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |

**CARDIOVASCULAR SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

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M .. Missing tissue

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BLANK .. Not examined microscopically

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>0 MG/KG | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
|                                  | 0704        | 0708  | 0709  | 0722  | 0729  | 0730  | 0731  | 0732  | 0733  | 0734  | 0735  | 0736  | 0737  | 0738  | 0739  | 0740  | 0741  | 0742  | 0743  | 0744  |          |       | 0745  | 0746  | 0747  | 0748  |
| ANIMAL ID                        | 00026       | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 | 00026    | 00027 | 00028 | 00029 | 00030 | 00031 |
| Cardiomyopathy                   | 1           | 1     | 2     | 2     | 1     | 2     |       |       | 2     | 1     | 1     | 1     | 1     | 1     | 2     | 2     | 2     | 2     |       | 1     | 1        |       | 2     |       | 1     | 44    |
| Thrombosis                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |          | X     |       |       |       | 3     |

**ENDOCRINE SYSTEM**

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |     |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Adrenal Cortex                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |     |
| Accessory Adrenal Cortical Nodule   |   | 2 | 1 | 2 |   | 1 | 1 | 1 | 1 | 1 | 2 |   |   |   |   |   |   | 1 | 2 |   |   |   | 1 | 1 | 21 | 1.3 |     |     |
| Degeneration, Fatty                 |   |   | 2 |   | 1 | 1 | 2 |   | 2 |   | 1 |   | 1 |   | 1 | 3 | 1 |   | 1 |   |   | 1 | 2 |   | 26 | 1.5 |     |     |
| Hematopoietic Cell Proliferation    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.0 |     |     |
| Hyperplasia, Focal                  |   | 1 | 2 |   |   |   |   |   |   | 1 | 2 |   | 1 |   |   |   |   |   | 1 |   |   | 2 |   | 2 | 17 | 1.4 |     |     |
| Hypertrophy, Focal                  |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   | 2 |   |   |   |   | 6  | 2.0 |     |     |
| Necrosis                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |     |
| Bilateral, Necrosis                 | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 4.0 |     |     |
| Capsule, Hyperplasia                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |     |     |
| Adrenal Medulla                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |     |
| Hyperplasia                         |   |   | 1 |   |   |   |   |   | 1 |   |   |   | 2 |   |   |   |   | 1 |   |   |   | 1 |   | 1 | 3  | 1   | 18  | 1.8 |
| Islets, Pancreatic                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |     |
| Hyperplasia                         |   | 2 |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |    | 3   | 1.3 |     |
| Parathyroid Gland                   | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | +  | 48  |     |     |
| Pituitary Gland                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |     |
| Pigmentation                        |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 1 |   | 2 | 7  | 1.4 |     |     |
| Pars Distalis, Angiectasis          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   | 2  | 2.0 |     |     |
| Pars Distalis, Cyst                 |   |   |   |   |   |   | X |   | X |   |   |   |   |   | X |   |   |   |   |   | X | X |   |   | 6  |     |     |     |
| Pars Distalis, Hyperplasia, Focal   |   |   | 2 |   |   |   |   |   |   | 2 |   | 1 | 1 | 2 |   | 2 | 2 |   | 3 |   |   |   |   |   | 16 | 1.9 |     |     |
| Pars Intermedia, Cyst               |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 4  |     |     |     |
| Pars Intermedia, Hyperplasia, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.5 |     |     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
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 Lab: SRI

| FISCHER 344 RATS MALE<br>0 MG/KG | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | * TOTALS         |                  |                  |                  |                  |     |     |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|-----|
|                                  | 0<br>7<br>0<br>4 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>3<br>7<br>0 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>5<br>4<br>0 | 0<br>7<br>2<br>9 | 0<br>5<br>7<br>5 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>0 | 0<br>6<br>7<br>0 | 0<br>7<br>3<br>0 | 0<br>5<br>4<br>0 | 0<br>6<br>1<br>2 | 0<br>7<br>2<br>9 | 0<br>5<br>7<br>0 | 0<br>6<br>3<br>0 | 0<br>7<br>3<br>0 |                  | 0<br>7<br>1<br>6 | 0<br>7<br>3<br>0 | 0<br>6<br>3<br>4 | 0<br>6<br>5<br>9 |     |     |
| ANIMAL ID                        | 0<br>0<br>2<br>6 | 0<br>0<br>2<br>7 | 0<br>0<br>2<br>8 | 0<br>0<br>2<br>9 | 0<br>0<br>3<br>0 | 0<br>0<br>3<br>1 | 0<br>0<br>3<br>2 | 0<br>0<br>3<br>3 | 0<br>0<br>3<br>4 | 0<br>0<br>3<br>5 | 0<br>0<br>3<br>6 | 0<br>0<br>3<br>7 | 0<br>0<br>3<br>8 | 0<br>0<br>3<br>9 | 0<br>0<br>4<br>0 | 0<br>0<br>4<br>1 | 0<br>0<br>4<br>2 | 0<br>0<br>4<br>3 | 0<br>0<br>4<br>4 | 0<br>0<br>4<br>5 | 0<br>0<br>4<br>6 | 0<br>0<br>4<br>7 | 0<br>0<br>4<br>8 | 0<br>0<br>4<br>9 | 0<br>0<br>5<br>0 |     |     |
| Thyroid Gland                    | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | A                | 46  |     |
| Degeneration, Cystic             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 7   | 1.1 |
| Ultimobranchial Cyst             |                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                | 2                | 1.5 |     |
| C-cell, Hyperplasia              |                  |                  |                  |                  |                  |                  | 1                | 4                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                | 2.5 |     |
| <b>GENERAL BODY SYSTEM</b>       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     |     |
| Tissue NOS                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     | 1   |
| <b>GENITAL SYSTEM</b>            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     |     |
| Epididymis                       | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 50  |     |
| Preputial Gland                  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 49               |     |     |
| Cyst                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |     |     |
| Hyperplasia                      |                  |                  |                  |                  |                  | 3                |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  | 2                | 2.5              |     |     |
| Inflammation, Chronic            |                  |                  | 2                |                  |                  |                  | 2                |                  | 2                |                  |                  |                  | 4                |                  | 2                |                  |                  |                  | 3                | 3                |                  | 2                |                  | 13               | 2.5              |     |     |
| Prostate                         | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 50               |                  |     |     |
| Fibrosis                         | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                | 2.0              |     |     |
| Inflammation, Chronic            | 3                | 1                |                  |                  |                  | 3                |                  |                  |                  | 2                | 2                | 2                |                  | 2                | 1                | 2                | 2                | 3                |                  | 2                | 1                | 1                |                  | 32               | 1.8              |     |     |
| Epithelium, Hyperplasia          | 2                | 1                |                  | 2                | 2                |                  |                  |                  |                  | 1                | 1                |                  | 1                | 1                | 1                | 1                | 2                |                  | 1                |                  | 1                |                  | 1                | 23               | 1.3              |     |     |
| Seminal Vesicle                  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 50               |                  |     |     |
| Testes                           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 50               |                  |     |     |
| Germinal Epithelium, Atrophy     | 4                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |                  |                  | 5                | 2.2              |     |     |
| Interstitial Cell, Hyperplasia   |                  |                  |                  | 1                |                  |                  |                  |                  | 2                |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                | 9                | 1.3              |     |     |

**HEMATOPOIETIC SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>0 MG/KG   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |      |      |      |      |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|------|
|                                    | 0704        | 0708 | 0709 | 0722 | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 |          | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 |
| ANIMAL ID                          | 0026        | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046     | 0047 | 0048 | 0049 | 0050 | 0051 |      |
| Bone Marrow                        | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | 50   |      |
| Hyperplasia                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 7    | 2.6  |
| Myelofibrosis                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 5    | 1.6  |
| Lymph Node                         |             |      |      | M    |      |      |      |      |      |      |      |      |      | +    |      |      | +    |      |      |      |          |      |      |      |      | 12   |      |
| Mediastinal, Ectasia               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 1    | 3.0  |
| Mediastinal, Hemorrhage            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 2    | 3.0  |
| Mediastinal, Hyperplasia, Lymphoid |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 1    | 2.0  |
| Pancreatic, Hemorrhage             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 1    | 1.0  |
| Pancreatic, Pigmentation           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 1    | 1.0  |
| Lymph Node, Mandibular             | M           | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | +    | M    | M    | M    | M    | +    | M    | M        | M    | M    | M    | M    | 2    |      |
| Lymph Node, Mesenteric             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | 50   |      |
| Ectasia                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 1    | 3.0  |
| Hemorrhage                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 4    | 1.3  |
| Hyperplasia, Lymphoid              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 1    | 2.0  |
| Spleen                             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | 50   |      |      |
| Angiectasis                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 1    | 4.0  |
| Fibrosis                           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 2    | 2.0  |
| Hematopoietic Cell Proliferation   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 6    | 2.2  |
| Hemorrhage                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 1    | 3.0  |
| Infarct                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 3    | 3.0  |
| Pigmentation                       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 1    | 3.0  |
| Lymphoid Follicle, Hyperplasia     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 19   | 2.0  |
|                                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      | 10   | 1.6  |
| Thymus                             | I           | +    | +    | M    | +    | I    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | 44   |      |      |

**INTEGUMENTARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>0 MG/KG  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                  |  |
|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|--|
|                                   | 0<br>7<br>0<br>4      | 0<br>7<br>0<br>9      | 0<br>7<br>2<br>9      | 0<br>3<br>7<br>0      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>5<br>4<br>0      | 0<br>7<br>2<br>9      | 0<br>5<br>7<br>5      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>7<br>3<br>0      | 0<br>6<br>7<br>7      | 0<br>7<br>3<br>0      | 0<br>5<br>4<br>0      | 0<br>6<br>1<br>2      | 0<br>7<br>2<br>9      | 0<br>5<br>7<br>0      | 0<br>6<br>7<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>1<br>6      | 0<br>7<br>3<br>0      | 0<br>6<br>3<br>4      |                       | 0<br>6<br>5<br>9 |  |
| ANIMAL ID                         | 0<br>0<br>0<br>2<br>6 | 0<br>0<br>0<br>2<br>7 | 0<br>0<br>0<br>2<br>8 | 0<br>0<br>0<br>2<br>9 | 0<br>0<br>0<br>3<br>0 | 0<br>0<br>0<br>3<br>1 | 0<br>0<br>0<br>3<br>2 | 0<br>0<br>0<br>3<br>3 | 0<br>0<br>0<br>3<br>4 | 0<br>0<br>0<br>3<br>5 | 0<br>0<br>0<br>3<br>6 | 0<br>0<br>0<br>3<br>7 | 0<br>0<br>0<br>3<br>8 | 0<br>0<br>0<br>3<br>9 | 0<br>0<br>0<br>4<br>0 | 0<br>0<br>0<br>4<br>1 | 0<br>0<br>0<br>4<br>2 | 0<br>0<br>0<br>4<br>3 | 0<br>0<br>0<br>4<br>4 | 0<br>0<br>0<br>4<br>5 | 0<br>0<br>0<br>4<br>6 | 0<br>0<br>0<br>4<br>7 | 0<br>0<br>0<br>4<br>8 | 0<br>0<br>0<br>4<br>9 | 0<br>0<br>0<br>4<br>0 |                  |  |
| Mammary Gland                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | I                     | +                     | +                     | +                     | +                     | I                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48               |  |
| Fibrosis                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 3.0            |  |
| Hyperplasia                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       | 2 2.0            |  |
| Duct, Ectasia                     | 3                     | 1                     |                       |                       | 1                     | 1                     |                       | 2                     | 2                     |                       | 1                     |                       |                       | 1                     |                       |                       | 1                     | 3                     | 1                     |                       |                       | 2                     | 1                     |                       | 1                     | 28 1.9           |  |
| Skin                              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50               |  |
| Hyperkeratosis                    |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0            |  |
| Inflammation, Granulomatous       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 4.0            |  |
| Epidermis, Hyperkeratosis         |                       |                       |                       |                       | 4                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 4.0            |  |
| Epidermis, Hyperplasia, Focal     |                       |                       |                       | 3                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 3.0            |  |
| <b>MUSCULOSKELETAL SYSTEM</b>     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |  |
| Bone                              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50               |  |
| Skeletal Muscle                   |                       |                       |                       |                       |                       |                       |                       |                       | +                     | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                |  |
| <b>NERVOUS SYSTEM</b>             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |  |
| Brain                             | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50               |  |
| Compression                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       | X                     |                       |                       |                       | 9                |  |
| <b>RESPIRATORY SYSTEM</b>         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |  |
| Lung                              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50               |  |
| Infiltration Cellular, Histiocyte | 2                     | 1                     | 1                     |                       |                       |                       |                       | 1                     |                       | 1                     |                       |                       |                       | 1                     | 1                     |                       | 1                     | 2                     |                       | 1                     |                       | 1                     | 1                     | 1                     | 1                     | 31 1.1           |  |
| Inflammation, Chronic             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 1.0            |  |
| Metaplasia, Osseous               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 1.0            |  |
| Alveolar Epithelium, Hyperplasia  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |                       | 1                     |                       |                       |                       |                       |                       | 3                     |                       |                       |                       | 11 1.7           |  |
| Nose                              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50               |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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| FISCHER 344 RATS MALE<br>0 MG/KG    | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |      |        |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|--------|
|                                     | 0704        | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 |          | 0709 |      |      |        |
| ANIMAL ID                           | 0026        | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046     | 0047 | 0048 | 0049 |        |
| Foreign Body                        |             |      |      | 1    |      |      |      |      |      | 1    |      | 2    | 2    |      |      |      |      |      | 2    |      |          | 2    |      |      | 11 1.6 |
| Inflammation, Chronic               | 1           |      |      | 1    |      |      |      |      |      | 1    | 1    | 3    | 2    |      |      |      |      |      | 3    |      |          | 2    |      |      | 13 1.6 |
| Goblet Cell, Hyperplasia            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      |          |      |      |      | 2 1.5  |
| Respiratory Epithelium, Hyperplasia | 2           |      |      |      | 1    |      |      |      |      | 1    | 1    | 2    | 2    |      |      |      |      | 2    | 2    |      | 1        | 1    |      |      | 13 1.4 |
| Trachea                             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | 50     |
| Inflammation, Acute                 |             |      |      | 3    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      | 1 3.0  |
| <b>SPECIAL SENSES SYSTEM</b>        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |        |
| Eye                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +        | +    | +    | +    | 49     |
| Cataract                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      |          |      |      | 1    | 6 1.3  |
| Edema                               |             |      |      |      |      |      |      |      |      |      |      | 3    |      |      |      |      |      |      |      |      |          |      |      |      | 1 3.0  |
| Bilateral, Cataract                 |             |      |      |      |      |      |      |      |      |      |      | 4    |      |      |      |      |      |      |      |      |          |      |      |      | 1 4.0  |
| Retina, Degeneration                |             |      |      |      |      |      |      |      |      |      |      | 4    |      |      |      |      |      |      |      |      |          |      |      |      | 1 4.0  |
| Harderian Gland                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | 50     |
| Hyperplasia, Focal                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      | 1 3.0  |
| Inflammation, Chronic               |             |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      |      |          |      |      |      | 3 1.0  |
| <b>URINARY SYSTEM</b>               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |        |
| Kidney                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +        | +    | +    | +    | 48     |
| Casts Granular                      | 3           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      | 1 3.0  |
| Casts Protein                       |             | 2    | 2    |      |      | 1    | 1    | 1    |      | 1    | 1    |      | 1    |      |      | 1    |      |      |      |      | 1        |      | 1    |      | 18 1.1 |
| Cyst                                |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |          |      |      |      | 1      |
| Hydronephrosis                      | 2           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      | 1 2.0  |
| Infarct                             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |      |      |      | 3 2.3  |
| Mineralization                      | 1           |      | 1    |      |      | 1    |      |      |      | 1    |      |      | 1    |      | 1    | 1    |      | 1    | 1    |      |          | 1    |      |      | 17 1.0 |
| Nephropathy                         | 4           | 2    | 2    | 1    | 1    | 2    | 1    | 2    | 1    | 2    | 2    | 2    | 2    | 1    | 1    | 2    | 2    |      | 1    | 2    | 1        | 2    | 1    | 1    | 45 1.5 |
| Artery, Thrombosis                  |             |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      | 1      |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST                                 | FISCHER 344 RATS MALE                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              | * TOTALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|----------|
|   | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0            |          |
| 7   | 7   | 7 | 3 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 6 | 6            |          |
| 0   | 2   | 2 | 7 | 2 | 2 | 4 | 2 | 7 | 2 | 2 | 3 | 7 | 3 | 4 | 1 | 2 | 7 | 7 | 3 | 3 | 1 | 3 | 3 | 5            |          |
| 4   | 9   | 9 | 0 | 9 | 9 | 0 | 9 | 5 | 9 | 9 | 0 | 7 | 0 | 0 | 2 | 9 | 0 | 7 | 0 | 0 | 6 | 0 | 4 | 9            |          |
| ANIMAL ID                                   | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0            |          |
|   | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0            |          |
|   | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0            |          |
|   | 2   | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5            |          |
|   | 6   | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9            |          |
| Papilla, Necrosis                           | 3   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 3.0</b> |          |
| Renal Tubule, Accumulation, Hyaline Droplet |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 4.0</b> |          |
| Urinary Bladder                             | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b>    |          |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|                       | 07163       | 06473 | 05719 | 07622 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 | 07729 |                    |
| 12.5 MG/KG            | 0051        | 0052  | 0053  | 0054  | 0055  | 0056  | 0057  | 0058  | 0059  | 0060  | 0061  | 0062  | 0063  | 0064  | 0065  | 0066  | 0067  | 0068  | 0069  | 0070  | 0071  | 0072  | 0073  | 0074  | 0075  |                    |

**ALIMENTARY SYSTEM**

|   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus   | +       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Large, Cecum  | + A +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Large, Colon<br>Edema                                 | + A + + + + + + + + + + + + + + A + + + + + + + + + + + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Large, Rectum   | + I     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Small, Duodenum                                       | + + + + + + + + + + + + + + + A + + + + + + + + + + + +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Small, Ileum<br>Necrosis                              | + A + + + + + + + + + + + + + + A + + + + + + + + + + + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intestine Small, Jejunum  | + A + + + + + + + + + + + + + + A + + + + + + + + + + + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Liver   | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Basophilic Focus  | X       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Clear Cell Focus  | X       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Degeneration, Cystic  | 1         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eosinophilic Focus  | X       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hematopoietic Cell Proliferation                                | 1         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hepatodiaphragmatic Nodule<br>Infiltration Cellular, Mixed Cell | 1         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mixed Cell Focus  | 1         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Necrosis, Focal   | 1         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thrombosis  | 1         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bile Duct, Hyperplasia  | 3 4 3 4 2 2 2 3 3 4 2 4 4 1 2 2 3 3 2 2 3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>12.5 MG/KG                                     | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ANIMAL ID | males<br>(cont...) |       |   |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------------|-------|---|
|   | 07163       | 06477 | 05762 | 04779 | 03779 | 02779 | 01779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 | 00779 |           |                    | 00779 |   |
| Centrilobular, Necrosis   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           | 4                  |       |   |
| Hepatocyte, Vacuolization Cytoplasmic                                   |             |       | 3     | 2     |       |       | 3     |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |           | 2                  |       |   |
| Hepatocyte, Vacuolization Cytoplasmic, Focal Kupffer Cell, Pigmentation |             |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       | 1     |       |       |       |       |           | 1                  |       |   |
| Mesentery   |             |       |       |       |       |       |       | +     | +     |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |           |                    | +     | + |
| Accessory Spleen  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    |       |   |
| Fat, Necrosis   |             |       |       |       |       |       | 2     | 2     |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |           |                    |       | 2 |
| Oral Mucosa   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    |       | + |
| Pancreas  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |           |                    |       |   |
| Atrophy   | 1           | 1     | 2     |       | 1     | 2     | 2     | 2     | 2     | 2     | 2     | 3     |       | 2     | 2     |       |       |       | 1     | 2     | 2     |       |       |       |           |                    | 3     |   |
| Cyst  | X           |       | X     |       | X     | X     | X     | X     | X     |       |       |       |       |       |       |       |       | X     | X     |       | X     |       |       |       |           |                    | X     |   |
| Necrosis  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    |       |   |
| Acinus, Hyperplasia, Focal  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    |       |   |
| Salivary Glands   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |           |                    |       |   |
| Atrophy   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    |       |   |
| Inflammation, Chronic   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    |       |   |
| Stomach, Forestomach  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |           |                    |       |   |
| Edema   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    | 2     |   |
| Ulcer   |             |       | 1     | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    |       |   |
| Epithelium, Hyperplasia   |             |       | 2     | 3     | 2     |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     | 2     | 1     |           |                    |       |   |
| Stomach, Glandular  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |           |                    |       |   |
| Cyst  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    | X     |   |
| Edema   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    | 3     |   |
| Erosion   |             |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                    |       |   |
| Inflammation  |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |           |                    | 2     |   |

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TDMS No. 99037 - 05  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
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Date Report Requested: 08/18/2010  
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 Lab: SRI

|                       |  | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------------|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| FISCHER 344 RATS MALE |  | 07          | 06 | 04 | 05 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 02 | 07 | 07 | 03 | 03 |    | 03 | 02 | 07 | 06 | 07 | 06 | 07 |
| 12.5 MG/KG            |  | 16          | 03 | 07 | 01 | 02 | 06 | 02 | 02 | 02 | 03 | 03 | 03 | 02 | 07 | 06 | 03 | 09 | 03 | 09 | 03 | 09 | 00 | 09 | 06 | 08 | 07 | 06 | 07 |
| ANIMAL ID             |  | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
|                       |  | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
|                       |  | 51          | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 |    |

males  
(cont...)

Ulcer 2 3 3 2

**CARDIOVASCULAR SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy           | 1 |   |   | 1 | 2 |   | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |   | 2 | 1 | 2 | 1 | 2 | 1 |   |
| Hypertrophy              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epicardium, Inflammation |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule |   | 1 |   |   |   |   |   |   | 1 | 1 | 1 |   | 1 |   |   | 2 |   | 1 |   | 1 | 1 |   | 1 |   | 1 |   |   |   |
| Degeneration, Fatty               | 1 | 1 | 3 |   | 1 | 1 | 1 | 2 | 2 |   | 1 | 2 |   | 2 | 2 | 3 | 1 |   |   |   | 2 |   | 2 |   | 2 |   |   |   |
| Hematopoietic Cell Proliferation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |
| Hyperplasia, Focal                |   |   |   |   | 1 |   | 2 | 2 |   | 1 |   |   |   |   |   |   |   | 1 | 1 | 1 |   |   |   |   |   |   |   |   |
| Hypertrophy, Focal                |   |   |   |   |   |   |   |   | 1 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   | 2 |   |   |   |   |   |   |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                       |   | 3 |   |   | 1 | 1 |   |   |   |   |   | 4 |   | 2 | 3 | 1 |   | 1 |   | 2 | 1 |   | 4 |   | 2 |   |   |   |
| Infiltration Cellular, Lymphocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal                |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | + |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   | 2 |   |   |   | 1 |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



| FISCHER 344 RATS MALE<br>12.5 MG/KG  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | males<br>(cont...)    |                       |                       |                       |                       |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                      | 0<br>7<br>1<br>6      | 0<br>6<br>0<br>3      | 0<br>4<br>7<br>7      | 0<br>5<br>1<br>9      | 0<br>7<br>2<br>9      | 0<br>6<br>6<br>2      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>6<br>7<br>9      | 0<br>7<br>7<br>9      | 0<br>2<br>3<br>9      | 0<br>7<br>3<br>9      | 0<br>7<br>1<br>9      | 0<br>6<br>0<br>8      | 0<br>7<br>6<br>7      | 0<br>6<br>3<br>0      | 0<br>7<br>1<br>0      | 0<br>6<br>7<br>0      |                       | 0<br>6<br>7<br>0      | 0<br>6<br>7<br>0      | 0<br>6<br>7<br>0      |                       |
| ANIMAL ID                            | 0<br>0<br>0<br>5<br>1 | 0<br>0<br>0<br>5<br>2 | 0<br>0<br>0<br>5<br>3 | 0<br>0<br>0<br>5<br>4 | 0<br>0<br>0<br>5<br>5 | 0<br>0<br>0<br>5<br>6 | 0<br>0<br>0<br>5<br>7 | 0<br>0<br>0<br>5<br>8 | 0<br>0<br>0<br>5<br>9 | 0<br>0<br>0<br>6<br>0 | 0<br>0<br>0<br>6<br>1 | 0<br>0<br>0<br>6<br>2 | 0<br>0<br>0<br>6<br>3 | 0<br>0<br>0<br>6<br>4 | 0<br>0<br>0<br>6<br>5 | 0<br>0<br>0<br>6<br>6 | 0<br>0<br>0<br>6<br>7 | 0<br>0<br>0<br>6<br>8 | 0<br>0<br>0<br>6<br>9 | 0<br>0<br>0<br>7<br>0 | 0<br>0<br>0<br>7<br>1 | 0<br>0<br>0<br>7<br>2 | 0<br>0<br>0<br>7<br>3 | 0<br>0<br>0<br>7<br>4 | 0<br>0<br>0<br>7<br>5 | 0<br>0<br>0<br>7<br>6 | 0<br>0<br>0<br>7<br>7 | 0<br>0<br>0<br>7<br>8 | 0<br>0<br>0<br>7<br>9 |
| Inflammation, Chronic Mineralization |                       |                       |                       |                       | 2                     |                       | 2                     | 2                     |                       |                       |                       | 4                     | 2                     |                       |                       | 2                     | 1                     |                       | 1                     |                       | 4                     |                       | 2                     | 3                     |                       | 2                     |                       |                       |                       |
| Necrosis Epithelium, Hyperplasia     |                       |                       |                       |                       | 2                     | 1                     |                       | 2                     | 1                     |                       |                       | 2                     | 1                     |                       |                       | 1                     |                       |                       |                       |                       | 3                     |                       |                       | 2                     |                       | 2                     |                       |                       |                       |
| Seminal Vesicle Hyperplasia          | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                       |                       |
| Inflammation, Acute                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Inflammation, Chronic                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Necrosis                             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Testes                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                       |                       |
| Germinal Epithelium, Atrophy         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Interstitial Cell, Hyperplasia       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |

**HEMATOPOIETIC SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hyperplasia                        | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Myelofibrosis                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Hyperplasia, Lymphoid |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreatic, Hyperplasia, Lymphoid  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular             | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mesenteric Ectasia     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>12.5 MG/KG | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | males<br>(cont...) |                  |                       |                  |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|-----------------------|------------------|
|                                     | 0<br>7<br>1<br>6 | 0<br>6<br>0<br>3 | 0<br>4<br>7<br>7 | 0<br>5<br>1<br>9 | 0<br>7<br>2<br>9 | 0<br>6<br>6<br>2 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>6<br>7<br>6 | 0<br>7<br>2<br>6 | 0<br>7<br>2<br>6 | 0<br>7<br>2<br>6 | 0<br>7<br>2<br>6 | 0<br>7<br>2<br>6 | 0<br>6<br>7<br>6 |           |                    | 0<br>7<br>2<br>6 | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>6 |
|                                     | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0         | 0                  | 0                | 0<br>0<br>0<br>5<br>1 |                  |

Hemorrhage  
 Hyperplasia, Lymphoid  
 Necrosis

1

4

Spleen  
 Fibrosis  
 Hematopoietic Cell Proliferation  
 Infarct  
 Necrosis  
 Pigmentation  
 Lymphoid Follicle, Atrophy  
 Lymphoid Follicle, Hyperplasia

+  
 3 2  
 2 1 1 1 2 1 1 2 2 2 1 2 1  
 2 2 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 2 1 1

Thymus  
 Cyst  
 Fibrosis

+ + + + + M + + + + + + + + + + + + + + I M + + + M  
 X

**INTEGUMENTARY SYSTEM**

Mammary Gland  
 Angiectasis  
 Hyperplasia  
 Duct, Ectasia

+ + + + + + + + + + + + + I + + + + + + + + + + + +  
 1 1 1 2 2 2 1 3 2 1 1 1 1 1 1 2 1 1 1

Skin  
 Cyst Epithelial Inclusion  
 Hyperkeratosis  
 Epidermis, Hyperplasia  
 Hair Follicle, Cyst

+  
 X

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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 BLANK .. Not examined microscopically  
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TDMS No. 99037 - 05  
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 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

|                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |       |       |       |       |       |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|
| FISCHER 344 RATS MALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |       |       |       |       |       |
|                       | 07163       | 06473 | 04579 | 07672 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 06777 | 07779 | 07779 | 07779 | 07779 | 06777 |                    | 07672 | 07779 | 07672 | 07779 | 07672 |
| 12.5 MG/KG            | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |       |       |       |       |       |
|                       | 0051        | 0052  | 0053  | 0054  | 0055  | 0056  | 0057  | 0058  | 0059  | 0060  | 0061  | 0062  | 0063  | 0064  | 0065  | 0066  | 0067  | 0068  | 0069  | 0070  |                    | 0071  | 0072  | 0073  | 0074  | 0075  |

**MUSCULOSKELETAL SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Femur, Osteopetrosis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Skeletal Muscle      |   |   | + |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |  |
| Fibrosis             |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |  |

**NERVOUS SYSTEM**

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Compression      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pigmentation     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Peripheral Nerve |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Spinal Cord      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**RESPIRATORY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Infiltration Cellular, Histiocyte | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 | 1 |   | 1 |   | 1 |   |  |
| Inflammation, Chronic             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Metaplasia, Osseous               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Alveolar Epithelium, Hyperplasia  |   |   |   | 1 |   |   | 1 | 1 | 1 |   | 1 |   |   |   | 1 |   | 1 |   |   |   | 1 |   |   |   |   |   | 1 |  |
| Nose                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Foreign Body                      |   |   |   |   | 2 |   |   |   | 2 |   |   |   |   | 1 | 1 |   |   |   |   | 1 | 3 | 2 | 2 |   |   |   |   |  |
| Inflammation, Chronic             |   |   | 2 | 2 |   | 1 |   | 2 | 1 |   |   |   | 2 | 2 | 1 | 1 |   | 1 |   |   |   | 2 | 2 |   |   |   |   |  |
| Goblet Cell, Hyperplasia          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |  |

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 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

|                                     |             |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------------------|-------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FISCHER 344 RATS MALE<br>12.5 MG/KG | DAY ON TEST | 071637 | 06479 | 05762 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 06779 | 07779 | 07779 | 02779 | 07779 | 07779 | 07779 | 06779 | 07779 | 06779 | 07779 | 06779 |       |       |
|                                     | ANIMAL ID   | 00051  | 00052 | 00053 | 00054 | 00055 | 00056 | 00057 | 00058 | 00059 | 00060 | 00061 | 00062 | 00063 | 00064 | 00065 | 00066 | 00067 | 00068 | 00069 | 00070 | 00071 | 00072 | 00073 | 00074 |

males  
(cont...)

|                                     |  |  |   |  |   |  |  |   |  |  |  |  |   |  |  |  |  |  |   |   |  |  |  |  |  |  |
|-------------------------------------|--|--|---|--|---|--|--|---|--|--|--|--|---|--|--|--|--|--|---|---|--|--|--|--|--|--|
| Respiratory Epithelium, Hyperplasia |  |  | 1 |  | 1 |  |  | 2 |  |  |  |  | 1 |  |  |  |  |  | 2 | 2 |  |  |  |  |  |  |
|-------------------------------------|--|--|---|--|---|--|--|---|--|--|--|--|---|--|--|--|--|--|---|---|--|--|--|--|--|--|

|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**SPECIAL SENSES SYSTEM**

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|   |  |  |   |  |  |  |  |  |   |   |   |  |   |   |  |  |   |  |  |  |  |  |  |  |   |
|---|--|--|---|--|--|--|--|--|---|---|---|--|---|---|--|--|---|--|--|--|--|--|--|--|---|
| Cataract                                  |  |  |   |  |  |  |  |  | 2 | 4 |   |  | 3 | 1 |  |  | 1 |  |  |  |  |  |  |  | 1 |
| Edema                                     |  |  |   |  |  |  |  |  |   | 2 |   |  |   |   |  |  |   |  |  |  |  |  |  |  |   |
| Hemorrhage                                |  |  |   |  |  |  |  |  |   |   |   |  |   |   |  |  |   |  |  |  |  |  |  |  |   |
| Inflammation, Chronic Bilateral, Cataract |  |  | 2 |  |  |  |  |  |   |   |   |  |   |   |  |  |   |  |  |  |  |  |  |  |   |
| Retina, Degeneration                      |  |  |   |  |  |  |  |  |   |   | 3 |  | 3 |   |  |  |   |  |  |  |  |  |  |  | 1 |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|
| Hyperplasia, Focal Inflammation, Chronic Pigmentation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|

|                |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lacrimal Gland |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

|                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Zymbal's Gland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

**URINARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                    | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Casts Protein             | 1 |   |   |   | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 |   | 2 |   | 1 |   | 2 | 1 |   | 1 |   | 1 | 1 |
| Cyst                      |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |
| Hydronephrosis            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |
| Infarct                   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Suppurative |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>12.5 MG/KG  | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | ANIMAL ID | males<br>(cont...) |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|--------------------|
|                                      | 0<br>7<br>1<br>6 | 0<br>6<br>0<br>3 | 0<br>4<br>7<br>7 | 0<br>5<br>1<br>9 | 0<br>7<br>2<br>9 | 0<br>6<br>6<br>2 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>2<br>9 | 0<br>6<br>7<br>6 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>0 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>0 | 0<br>7<br>2<br>9 | 0<br>7<br>7<br>6 | 0<br>6<br>7<br>0 | 0<br>7<br>3<br>0 | 0<br>6<br>7<br>0 |   |           |                    |
| Mineralization                       | 2                | 2                | 1                |                  | 2                |                  | 2                |                  | 1                |                  | 1                | 1                | 1                | 2                |                  | 2                | 1                | 2                |                  | 1                | 2                | 1                | 2                | 1 |           |                    |
| Nephropathy                          | 1                |                  |                  | 2                | 2                | 2                | 2                | 2                | 2                | 1                | 2                | 1                | 1                | 1                |                  | 2                | 1                | 2                | 2                | 3                | 1                |                  | 3                | 1 |           |                    |
| Transitional Epithelium, Hyperplasia |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |   |           |                    |
| Urinary Bladder                      | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + |           |                    |
| Atrophy                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | 3         |                    |
| Inflammation, Acute                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | 4         |                    |
| Inflammation, Chronic                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | 2         |                    |
| Necrosis                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | 4         |                    |
| Transitional Epithelium, Hyperplasia |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                    |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>12.5 MG/KG          | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |        |        |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|--------|
|  | 0677        | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  |          | 0677  |       |       |        |        |
| ANIMAL ID                                    | 00076       | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096    | 00097 | 00098 | 00099 |        |        |
| Centrilobular, Necrosis                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 4.0  |        |
| Hepatocyte, Vacuolization Cytoplasmic        |             | 3     |       |       |       | 4     | 2     |       |       |       | 3     |       |       |       | 3     |       |       |       |       |       |          |       |       |       | 10 2.6 |        |
| Hepatocyte, Vacuolization Cytoplasmic, Focal |             |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 2 1.0  |        |
| Kupffer Cell, Pigmentation                   | 2           | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 4 1.8  |        |
| Mesentery                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 10     |        |
| Accessory Spleen                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1      |        |
| Fat, Necrosis                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 9 1.9  |        |
| Oral Mucosa                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1      |        |
| Pancreas                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 50     |        |
| Atrophy                                      | 2           | 4     | 1     | 2     | 1     | 2     |       |       |       | 1     | 1     | 1     |       |       | 1     |       | 2     | 2     | 1     |       | 3        | 3     | 4     | 1     | 2      | 35 1.9 |
| Cyst   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 25     |
| Necrosis                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 1 3.0  |
| Acinus, Hyperplasia, Focal                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 1 1.0  |
| Salivary Glands                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 50     |
| Atrophy                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 4 1.8  |
| Inflammation, Chronic                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 2 1.5  |
| Stomach, Forestomach                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 50     |
| Edema  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 4 2.3  |
| Ulcer  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 3 2.7  |
| Epithelium, Hyperplasia                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 12 2.2 |
| Stomach, Glandular                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 50     |
| Cyst   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 1      |
| Edema  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 2 2.0  |
| Erosion                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 6 1.7  |
| Inflammation                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 1 1.0  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
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TDMS No. 99037 - 05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010

Time Report Requested: 08:56:05

First Dose M/F: 06/09/03 / 06/09/03

Lab: SRI

| DAY ON TEST           |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|-----------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| FISCHER 344 RATS MALE |  | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |   |                 |
| 12.5 MG/KG            |  | 7 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 9 | 1 | 2 | 0 | 2 | 5 | 2 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 6 |                 |
| ANIMAL ID             |  | 7 | 6 | 9 | 9 | 0 | 6 | 6 | 0 | 9 | 9 | 6 | 9 | 2 | 9 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 |                 |
| ANIMAL ID             |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| ANIMAL ID             |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| ANIMAL ID             |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| ANIMAL ID             |  | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |                 |
| ANIMAL ID             |  | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                 |
|                       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

Ulcer 3 5 2.6

CARDIOVASCULAR SYSTEM

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Heart                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Cardiomyopathy           | 1 |   | 1 | 1 | 1 |   |   | 1 | 2 | 1 |   | 1 | 2 | 2 |   | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2  | 41  | 1.4 |
| Hypertrophy              |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 2.0 |
| Thrombosis               | X | X |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |    | 4   |     |
| Epicardium, Inflammation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |

ENDOCRINE SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Accessory Adrenal Cortical Nodule |   |   |   | 1 |   | 1 |   | 1 |   |   |   | 1 |   | 1 |   |   |   | 2 | 1 |   |   |   |   | 2 |   |    | 19  | 1.2 |
| Degeneration, Fatty               | 1 | 2 |   |   |   | 2 | 3 |   |   |   |   | 3 | 1 | 2 |   | 1 |   | 2 | 1 | 1 |   |   | 1 |   |   | 28 | 1.7 |     |
| Hematopoietic Cell Proliferation  |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2   | 1.5 |
| Hyperplasia, Focal                |   |   |   |   |   |   |   |   | 2 |   |   |   | 2 |   |   |   |   |   | 1 |   | 1 |   |   |   |   | 11 | 1.4 |     |
| Hypertrophy, Focal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.5 |     |
| Necrosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 3  | 1.3 |     |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |  |
| Hyperplasia                       | 3 | 1 |   |   | 1 |   | 3 |   |   |   |   | 1 | 1 | 4 |   | 1 | 1 |   | 1 |   |   |   | 1 | 3 |   | 25 | 1.9 |  |
| Infiltration Cellular, Lymphocyte |   |   | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.0 |  |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |  |  |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |  |  |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |  |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| Parathyroid Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |  |
| Hyperplasia, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |  |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |  |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |  |
| Pigmentation    |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   | 1 | 6  | 1.7 |  |

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+ .. Tissue examined microscopically  
X .. Lesion present  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
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| FISCHER 344 RATS MALE<br>12.5 MG/KG | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |        |  |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|--------|--|
|                                     | 0677        | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  |          | 0677  |       |       |       |        |  |
| ANIMAL ID                           | 00076       | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096    | 00097 | 00098 | 00099 | 00100 |        |  |
| Pars Distalis, Angiectasis          |             |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 2 1.5  |  |
| Pars Distalis, Atrophy              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1 3.0  |  |
| Pars Distalis, Cyst                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 3      |  |
| Pars Distalis, Hyperplasia, Focal   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 13 1.8 |  |
| Pars Intermedia, Angiectasis        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 4 2.5  |  |
| Pars Intermedia, Hyperplasia, Focal |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1 1.0  |  |
| Rathke's Cleft, Dilatation          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 3 2.0  |  |
| Thyroid Gland                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 48     |  |
| Degeneration, Cystic                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 6 1.0  |  |
| Ultimobranchial Cyst                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 2 1.0  |  |
| C-cell, Hyperplasia                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 7 2.4  |  |
| Follicular Cell, Hyperplasia, Focal |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 2 2.5  |  |
| <b>GENERAL BODY SYSTEM</b>          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |        |  |
| Tissue NOS                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1      |  |
| <b>GENITAL SYSTEM</b>               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |        |  |
| Epididymis                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 50     |  |
| Granuloma Sperm                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1 2.0  |  |
| Penis                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1      |  |
| Inflammation, Acute                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1 2.0  |  |
| Preputial Gland                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 49     |  |
| Inflammation, Chronic               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 19 2.1 |  |
| Necrosis                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1 4.0  |  |
| Prostate                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 50     |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>12.5 MG/KG   | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |          |  |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|--|
|   | 0677        | 0662  | 0672  | 0672  | 0661  | 0662  | 0661  | 0660  | 0679  | 0679  | 0651  | 0677  | 0677  | 0677  | 0657  | 0677  | 0666  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0666  |          |          |  |
| ANIMAL ID   | 00076       | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100    |          |  |
| Inflammation, Chronic Mineralization Necrosis Epithelium, Hyperplasia           | 4           |       |       |       |       |       | 1     |       |       |       |       | 1     |       |       |       |       | 1     |       | 4     |       |       |       | 1     | 1     | 1        | 20 2.1   |  |
| Seminal Vesicle Hyperplasia Inflammation, Acute Inflammation, Chronic Necrosis  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 1 2.0 |  |
| Testes Germinal Epithelium, Atrophy Interstitial Cell, Hyperplasia              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 2 3.5 |  |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 5 1.6    |  |
| <b>HEMATOPOIETIC SYSTEM</b>   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |          |  |
| Bone Marrow Hyperplasia Myelofibrosis Necrosis Thrombosis                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 7 2.7 |  |
| Lymph Node Mediastinal, Hyperplasia, Lymphoid Pancreatic, Hyperplasia, Lymphoid | M           |       |       |       |       | +     | +     |       |       |       | +     | +     |       |       |       | +     | +     |       |       |       |       |       |       | +     |          | 14 1 4.0 |  |
| Lymph Node, Mandibular  | M           | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M        | 0 1 2.0  |  |
| Lymph Node, Mesenteric Ectasia  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 49 1 4.0 |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
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 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

|                              |                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|------------------------------|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                              | DAY ON TEST       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
| <b>FISCHER 344 RATS MALE</b> |                   | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|                              |                   | 7 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 9 | 1 | 2 | 0 | 2 | 5 | 2 | 8 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |                 |
|                              | <b>12.5 MG/KG</b> | 7 | 6 | 9 | 9 | 0 | 6 | 6 | 0 | 9 | 9 | 6 | 9 | 2 | 9 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8               |
|                              | ANIMAL ID         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                              |                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                              |                   | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |                 |
|                              |                   | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 | <b>* TOTALS</b> |

**MUSCULOSKELETAL SYSTEM**

|                      |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |              |  |              |
|----------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------|--|--------------|
| Bone                 | + |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>50</b>    |  |              |
| Femur, Osteopetrosis |   | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |              |  | <b>2 2.0</b> |
| Skeletal Muscle      |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>4</b>     |  |              |
| Fibrosis             |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>2 3.5</b> |  |              |

**NERVOUS SYSTEM**

|                  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |           |   |              |
|------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|-----------|---|--------------|
| Brain            | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  | <b>50</b> |   |              |
| Compression      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |           |   | <b>4</b>     |
| Pigmentation     |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |           | X | <b>1 1.0</b> |
| Peripheral Nerve |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  | <b>1</b>  |   |              |
| Spinal Cord      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  | <b>1</b>  |   |              |

**RESPIRATORY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |               |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---|---------------|
| Lung                              | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b>    |   |               |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1            | 1 | <b>43 1.0</b> |
| Inflammation, Chronic             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>6 1.3</b> |   |               |
| Metaplasia, Osseous               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>5 1.4</b> |   |               |
| Alveolar Epithelium, Hyperplasia  | 1 | 2 |   |   |   |   |   |   |   | 1 | 2 |   | 1 |   | 2 | 2 |   |   |   | 1 |   |   |   |   |   |   |              |   | <b>17 1.2</b> |
| Nose                              | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b>    |   |               |
| Foreign Body                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>8 1.8</b> |   |               |
| Inflammation, Chronic             | 3 |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |              |   | <b>15 1.6</b> |
| Goblet Cell, Hyperplasia          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b> |   |               |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
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M .. Missing tissue  
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TDMS No. 99037 - 05  
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 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>12.5 MG/KG | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |  |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
|                                     | 0677        | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  |          |  |
| ANIMAL ID                           | 00076       | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 |          |  |
| Respiratory Epithelium, Hyperplasia | 2           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 7 1.6    |  |
| Trachea                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |
| <b>SPECIAL SENSES SYSTEM</b>        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Eye                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |
| Cataract                            |             |       | 1     | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       | 9 1.7    |  |
| Edema                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 2.0    |  |
| Hemorrhage                          |             |       |       |       |       |       |       |       | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 3.0    |  |
| Inflammation, Chronic               |             |       |       |       |       |       |       |       | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2 2.5    |  |
| Bilateral, Cataract                 |             |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2 1.5    |  |
| Retina, Degeneration                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2 3.0    |  |
| Harderian Gland                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |  |
| Hyperplasia, Focal                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 1.0    |  |
| Inflammation, Chronic               |             |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     | 1     | 2     |       |       |       | 4 1.5    |  |
| Pigmentation                        |             |       |       |       |       |       |       |       | 4     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 4.0    |  |
| Lacrimal Gland                      |             | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |  |
| Zymbal's Gland                      |             |       |       |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |
| <b>URINARY SYSTEM</b>               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Kidney                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | 48       |  |
| Casts Protein                       | 1           | 1     |       | 1     |       |       | 1     |       | 3     |       |       | 1     | 1     | 2     |       | 2     | 1     | 3     | 1     | 2     | 1     |       |       |       | 30 1.5   |  |
| Cyst                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |  |
| Hydronephrosis                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 3.0    |  |
| Infarct                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 3.0    |  |
| Inflammation, Suppurative           |             |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2 2.5    |  |

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 + .. Tissue examined microscopically  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
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 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |
|-----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
|                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    |
| 25 MG/KG              | 5           | 2 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 4 | 6 | 6 | 6 | 5 | 7 | 7 | 4 | 6 | 4 | 7 | 7 | 6 |   |                    |
|                       | 0           | 7 | 3 | 3 | 5 | 3 | 7 | 2 | 2 | 2 | 7 | 0 | 5 | 0 | 5 | 9 | 0 | 2 | 2 | 5 | 1 | 8 | 3 | 0 |   | 8                  |
| ANIMAL ID             | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                    |
|                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                    |
|                       | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |                    |
|                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |   | 2                  |
|                       | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |                    |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Cecum                     | + | + | A | + | + | + | A | + | + | + | + | A | + | A | + | + | + | + | + | A | + | + | + | A | + |
| Intestine Large, Colon Edema               | + | A | A | + | A | + | A | + | + | + | + | A | + | A | + | A | + | + | + | A | A | A | + | A | + |
| Hemorrhage                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis                                   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Rectum                    | + | + | A | + | + | + | A | + | + | + | + | M | + | A | + | + | + | + | + | + | A | + | + | + | + |
| Intestine Small, Duodenum                  | + | A | A | + | A | + | A | + | + | + | + | A | + | A | + | + | + | + | + | A | + | A | + | A | + |
| Intestine Small, Ileum Inflammation, Acute | + | A | A | + | A | + | A | + | + | + | + | A | + | A | + | A | + | + | + | A | A | A | + | A | + |
| Intestine Small, Jejunum                   | + | A | A | + | A | + | A | + | + | + | + | A | + | A | + | A | + | + | + | A | A | + | + | A | + |
| Liver                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus                           | X |   | X | X |   | X |   | X | X | X | X | X | X | X |   |   |   |   |   | X |   |   | X | X |   |
| Clear Cell Focus                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Degeneration, Cystic                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eosinophilic Focus                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatodiaphragmatic Nodule                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infiltration Cellular, Mixed Cell          | 1 |   | 1 | 1 |   | 2 |   | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |
| Mixed Cell Focus                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Hyperplasia                     | 2 | 2 | 3 | 3 | 4 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 |   |   |   |   |   |   |   |   |   |
| Centrilobular, Necrosis                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | males<br>(cont...) |                       |                  |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|-----------------------|------------------|
|                                   | 0<br>5<br>0<br>0 | 0<br>2<br>7<br>0 | 0<br>6<br>3<br>5 | 0<br>7<br>3<br>0 | 0<br>6<br>5<br>5 | 0<br>7<br>3<br>0 | 0<br>6<br>7<br>7 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>6<br>7<br>7 | 0<br>4<br>0<br>7 | 0<br>6<br>5<br>2 | 0<br>6<br>0<br>8 | 0<br>5<br>9<br>2 | 0<br>7<br>0<br>6 | 0<br>7<br>2<br>9 | 0<br>4<br>5<br>0 | 0<br>6<br>1<br>5 | 0<br>4<br>8<br>5 |           |                    | 0<br>7<br>3<br>0      | 0<br>7<br>0<br>8 |
|                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0         | 0                  | 0<br>0<br>1<br>0<br>1 |                  |

Hepatocyte, Vacuolization Cytoplasmic  
 Hepatocyte, Vacuolization Cytoplasmic, Focal

Mesentery  
 Accessory Spleen  
 Hemorrhage  
 Fat, Necrosis

+  
  
  
2  
  
2

Pancreas  
 Atrophy  
 Cyst  
 Acinus, Hyperplasia, Focal

+  
 3 1 2 2 1 2 1 X X X X 3 2 3 1  
 X X X X 2 2 X  
 2 2

Salivary Glands  
 Atrophy  
 Inflammation, Acute

+  
 1 2 1 1 1

Stomach, Forestomach  
 Edema  
 Inflammation, Chronic Active  
 Ulcer  
 Epithelium, Hyperplasia

+  
 4  
 4  
 1 1 2

Stomach, Glandular  
 Edema  
 Erosion  
 Ulcer

+ + + + + A + + + + + + + + + + + + + + + +  
 3  
 1 1 2

**CARDIOVASCULAR SYSTEM**

Heart +

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:  
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate  
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |   |      |      |  |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|---|------|------|--|
|                                   | 0500        | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 |           |                    | 2500 |   |      |      |  |
|                                   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0001               |      |   |      |      |  |
|                                   | 5           | 2    | 6    | 7    | 6    | 7    | 6    | 7    | 7    | 7    | 6    | 4    | 6    | 6    | 6    | 5    | 7    | 7    | 4    | 6    | 4         | 7                  | 7    | 6 | 0002 |      |  |
|                                   | 0           | 7    | 3    | 3    | 5    | 3    | 7    | 2    | 2    | 2    | 7    | 0    | 5    | 0    | 5    | 9    | 0    | 2    | 2    | 5    | 1         | 8                  | 3    | 0 | 8    | 0003 |  |
|                                   | 0           | 0    | 5    | 0    | 5    | 0    | 7    | 9    | 9    | 9    | 7    | 7    | 2    | 8    | 2    | 8    | 6    | 9    | 9    | 0    | 5         | 5                  | 0    | 8 | 9    | 0004 |  |
|                                   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    | 0 | 0    | 0005 |  |
|                                   | 1           | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1         | 1                  | 1    | 1 | 1    | 0006 |  |
|                                   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 2    | 2         | 2                  | 2    | 2 | 2    | 0007 |  |
|                                   | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1         | 2                  | 3    | 4 | 5    | 0008 |  |

Cardiomyopathy 1 2 1 2 1 1 1 1 1 2 3 2 2 1 1 1 2 2 2 1 1 2 1  
 Thrombosis

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule |   | 1 | 1 | 2 |   | 2 |   | 1 |   |   | 1 |   |   |   | 1 | 1 | 1 |   |   |   | 2 |   | 2 |   |   |
| Degeneration, Fatty               | 1 |   |   |   | 1 | 2 | 2 | 1 |   |   |   | 2 | 2 |   |   |   | 2 | 1 |   |   | 2 | 1 |   |   | 1 |
| Hyperplasia, Focal                |   |   |   |   |   | 4 |   |   |   | 1 |   |   |   |   |   |   |   | 2 |   |   |   |   | 1 |   | 1 |
| Necrosis                          |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Capsule, Hyperplasia              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                       |   | 3 |   | 3 | 2 |   |   |   |   |   |   |   |   |   |   |   | 2 |   | 4 |   |   |   |   |   |   |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |
| Parathyroid Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation                      |   |   |   |   | 3 |   |   |   |   |   |   |   | 1 | 2 |   |   |   |   |   |   |   |   |   |   | 1 |
| Pars Distalis, Angiectasis        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |
| Pars Distalis, Atrophy            |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Cyst               |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |
| Pars Distalis, Hyperplasia, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Intermedia, Angiectasis      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Intermedia, Cyst             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Rathke's Cleft, Dilatation        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | males<br>(cont...) |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
|                                   | 0           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |           |                    |

Thyroid Gland  
 Degeneration, Cystic  
 Ultimobranchial Cyst  
 C-cell, Hyperplasia  
 Follicular Cell, Hyperplasia, Focal

+ + + + + A + + + + A + + + + + + + A A A + + +  
 1 1 1  
 1  
 3

**GENERAL BODY SYSTEM**

Tissue NOS +

**GENITAL SYSTEM**

Epididymis +

Preputial Gland +  
 Hyperplasia 3  
 Inflammation, Chronic 2 3 3 2 2 2 2 2 2 2 2 2

Prostate +  
 Fibrosis  
 Inflammation, Chronic 2 2 2 1 4 3 3 3 2 1 2  
 Necrosis 4  
 Epithelium, Hyperplasia 1 1 1 1 1 2 2 1 1 1 1 1

Seminal Vesicle +  
 Inflammation, Acute

Testes +  
 Germinal Epithelium, Atrophy  
 Interstitial Cell, Hyperplasia 1 1

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically M .. Missing tissue  
 X .. Lesion present A .. Autolysis precludes evaluation  
 I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID          | males<br>(cont...) |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|--------------------|--------------------|
|                                   | 0<br>5<br>0<br>0 | 0<br>2<br>7<br>0 | 0<br>6<br>3<br>5 | 0<br>7<br>3<br>0 | 0<br>6<br>5<br>5 | 0<br>7<br>3<br>0 | 0<br>6<br>7<br>7 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>6<br>2<br>7 | 0<br>4<br>0<br>7 | 0<br>6<br>5<br>2 | 0<br>6<br>0<br>8 | 0<br>5<br>9<br>2 | 0<br>7<br>0<br>6 | 0<br>7<br>2<br>9 | 0<br>4<br>5<br>0 | 0<br>6<br>1<br>5 | 0<br>4<br>8<br>5 | 0<br>7<br>3<br>0 | 0<br>7<br>0<br>8 | 0<br>6<br>8<br>9 |                       |                    |                    |
|                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>1<br>0<br>1 | males<br>(cont...) |                    |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Bone Marrow<br>Hyperplasia  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2 |  |
| Lymph Node<br>Mediastinal, Hyperplasia, Lymphoid<br>Mediastinal, Pigmentation   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Lymph Node, Mandibular  | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |  |  |
| Lymph Node, Mesenteric<br>Ectasia<br>Hemorrhage<br>Hyperplasia, Lymphoid<br>Necrosis  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1<br>2<br>2<br>2<br>1  |  |
| Spleen<br>Fibrosis<br>Hematopoietic Cell Proliferation<br>Infarct<br>Necrosis<br>Pigmentation<br>Lymphoid Follicle, Atrophy<br>Lymphoid Follicle, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3<br>1<br>2<br>2<br>2<br>3<br>3<br>2<br>2<br>3<br>1<br>2<br>2<br>3<br>2<br>3                               |  |
| Thymus<br>Ectopic Parathyroid Gland   | + | + | + | + | + | I | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |

**INTEGUMENTARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | males<br>(cont...)    |                       |                       |                       |                       |                       |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                       | 0<br>5<br>0<br>0      | 0<br>2<br>7<br>0      | 0<br>6<br>3<br>5      | 0<br>7<br>3<br>0      | 0<br>6<br>5<br>5      | 0<br>7<br>3<br>0      | 0<br>6<br>7<br>7      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>6<br>7<br>7      | 0<br>4<br>0<br>7      | 0<br>6<br>5<br>2      | 0<br>6<br>0<br>8      | 0<br>6<br>5<br>2      | 0<br>5<br>9<br>8      | 0<br>7<br>0<br>6      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>4<br>5<br>0      | 0<br>6<br>8<br>5      | 0<br>4<br>3<br>0      | 0<br>7<br>0<br>8      | 0<br>7<br>0<br>8      |                       |                       | 0<br>6<br>9<br>5      |                       |                       |                       |                       |                       |                       |                       |                       |
| 25 MG/KG              | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>1<br>0<br>3 | 0<br>0<br>1<br>0<br>4 | 0<br>0<br>1<br>0<br>5 | 0<br>0<br>1<br>0<br>6 | 0<br>0<br>1<br>0<br>7 | 0<br>0<br>1<br>0<br>8 | 0<br>0<br>1<br>0<br>9 | 0<br>0<br>1<br>1<br>0 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>1<br>1<br>3 | 0<br>0<br>1<br>1<br>4 | 0<br>0<br>1<br>1<br>5 | 0<br>0<br>1<br>1<br>6 | 0<br>0<br>1<br>1<br>7 | 0<br>0<br>1<br>1<br>8 | 0<br>0<br>1<br>1<br>9 | 0<br>0<br>2<br>2<br>0 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>5 | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>2<br>2<br>7 | 0<br>0<br>2<br>2<br>8 | 0<br>0<br>2<br>2<br>9 | 0<br>0<br>2<br>2<br>0 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>5 |

Mammary Gland Duct, Ectasia: +  
 1 2 2 1 1 3 2 1 2 3 2 2 2 2 1 1 1

Skin Cyst Epithelial Inclusion: +  
 X  
 Hyperkeratosis: 2  
 Inflammation, Chronic: 4  
 Mineralization: 2  
 Necrosis: 3  
 Epidermis, Hyperplasia: 1  
 Subcutaneous Tissue, Fibrosis: 1

**MUSCULOSKELETAL SYSTEM**

Bone Femur, Osteopetrosis: +  
 Skeletal Muscle

**NERVOUS SYSTEM**

Brain Compression: + + + + + + + + X + X X + + X + + + + + X  
 Mineralization: +  
 Necrosis: +

**RESPIRATORY SYSTEM**

Lung Infiltration Cellular, Histiocyte Inflammation, Chronic: +  
 1 2 1 2

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:  
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate  
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | males<br>(cont...) |                  |                  |                  |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|
|                                   | 0<br>5<br>0<br>0 | 0<br>2<br>7<br>0 | 0<br>6<br>3<br>5 | 0<br>7<br>3<br>0 | 0<br>6<br>5<br>5 | 0<br>7<br>3<br>0 | 0<br>6<br>7<br>7 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>6<br>2<br>7 | 0<br>4<br>0<br>7 | 0<br>6<br>5<br>2 | 0<br>6<br>0<br>8 | 0<br>5<br>9<br>2 | 0<br>7<br>0<br>6 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>4<br>5<br>0 | 0<br>6<br>1<br>5 |           |                    | 0<br>4<br>8<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>0<br>8 |
|                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0         | 0                  | 0                | 0                |                  |
|                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0         | 0                  | 0                | 0                |                  |
|                                   | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1         | 1                  | 1                | 1                |                  |
|                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 2                | 2                | 2         | 2                  | 2                | 2                |                  |
|                                   | 1                | 2                | 3                | 4                | 5                | 6                | 7                | 8                | 9                | 0                | 1                | 2                | 3                | 4                | 5                | 6                | 7                | 8                | 9                | 0                | 1         | 2                  | 3                | 4                |                  |

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Metaplasia, Osseous                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Alveolar Epithelium, Hyperplasia    | 1 | 1 |   |   |   |   |   | 2 | 2 |   |   |   | 1 |   |   |   |   | 1 |   |   | 2 | 1 |   |   |   |  |
| Nose                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Foreign Body                        | 1 |   |   |   |   |   | 1 |   |   |   |   | 2 |   |   |   |   | 2 | 1 |   |   |   |   |   |   | 2 |  |
| Inflammation, Chronic               | 2 |   |   |   |   |   | 4 |   |   | 3 | 2 |   |   | 1 |   |   | 1 |   |   |   |   | 1 |   |   | 2 |  |
| Goblet Cell, Hyperplasia            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Respiratory Epithelium, Hyperplasia | 2 |   |   |   |   |   |   |   |   | 1 | 2 |   |   | 1 |   |   | 2 |   |   |   |   |   | 1 |   | 2 |  |
| Trachea                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

**SPECIAL SENSES SYSTEM**

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye                   | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |  |
| Cataract              |   |   |   |   | 2 |   |   | 2 |   | 1 |   |   |   |   |   |   | 1 |   | 2 |   |   |   | 1 |   | 1 |  |
| Bilateral, Cataract   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Harderian Gland       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Inflammation, Chronic |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   | 1 |  |
| Lacrimal Gland        |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Zymbal's Gland        | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**URINARY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney                               | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Casts Protein                        |   |   | 1 |   |   |   |   |   |   |   | 1 |   | 1 |   | 1 | 1 |   |   |   | 1 | 2 |   | 3 |   | 1 |  |
| Mineralization                       | 2 | 1 | 2 | 1 |   | 2 |   | 1 | 2 | 1 | 1 | 1 | 2 | 2 |   | 2 | 1 | 2 |   | 2 | 2 | 2 | 2 | 2 | 1 |  |
| Nephropathy                          | 1 | 1 | 1 | 1 |   | 2 |   | 1 | 3 | 2 | 1 |   | 2 | 1 | 2 | 1 | 1 | 2 |   | 2 | 2 | 1 | 1 | 3 | 1 |  |
| Transitional Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 2 |   | 1 |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

|                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|
|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                  |
|                              | DAY ON TEST | 5 | 2 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 4 | 6 | 6 | 6 | 5 | 7 | 7 | 7 | 4 | 6 | 4 | 7 | 7 | 6 |                  |
| <b>FISCHER 344 RATS MALE</b> |             | 0 | 7 | 3 | 3 | 5 | 3 | 7 | 2 | 2 | 2 | 7 | 0 | 5 | 0 | 5 | 9 | 0 | 2 | 2 | 5 | 1 | 8 | 3 | 0 | 8 |                  |
| <b>25 MG/KG</b>              |             | 0 | 0 | 5 | 0 | 5 | 0 | 7 | 9 | 9 | 9 | 7 | 2 | 8 | 2 | 8 | 6 | 9 | 9 | 0 | 5 | 5 | 0 | 8 | 9 |   |                  |
|                              | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                  |
|                              |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                  |
|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | <b>males</b>     |
|                              |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | <b>(cont...)</b> |

Urinary Bladder

+ +

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST                  |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS MALE</b> | 5 | 4 | 1 | 7 | 7 | 5 | 4 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 3 | 6 | 7 | 3 | 7 | 7 | 6 | 6 | 6 |   |
|                              | 3 | 0 | 6 | 3 | 3 | 9 | 8 | 4 | 3 | 0 | 3 | 2 | 2 | 3 | 6 | 2 | 5 | 9 | 1 | 2 | 1 | 3 | 1 | 3 | 6 | 6 |   |
| <b>25 MG/KG</b>              | 2 | 4 | 3 | 0 | 0 | 9 | 5 | 0 | 0 | 2 | 0 | 9 | 9 | 1 | 3 | 9 | 9 | 4 | 2 | 9 | 3 | 0 | 8 | 7 | 8 | 8 |   |
|                              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| ANIMAL ID                    |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                              |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|                              |   | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |   |
|                              |   | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |
| <b>* TOTALS</b>              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |               |              |               |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|--------------|---------------|
| Esophagus                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>     |              |               |
| Intestine Large, Cecum            | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A |   | <b>40</b>     |              |               |
| Intestine Large, Colon            | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | A | + | + | A | A | <b>33</b>     |              |               |
| Edema                             |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>  |              |               |
| Hemorrhage                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   | <b>1 1.0</b>  |              |               |
| Necrosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>  |              |               |
| Intestine Large, Rectum           | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | A | <b>41</b>     |              |               |
| Intestine Small, Duodenum         | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | + | <b>37</b>     |              |               |
| Intestine Small, Ileum            | A | + | A | + | + | + | A | + | + | + | + | M | + | + | + | + | A | + | A | + | A | + | + | A | A | <b>30</b>     |              |               |
| Inflammation, Acute               |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 1.0</b>  |              |               |
| Intestine Small, Jejunum          | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | A | + | A | + | + | A | A | <b>33</b>     |              |               |
| Liver                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>     |              |               |
| Basophilic Focus                  |   |   |   |   |   |   |   |   |   | X |   | X | X | X |   | X | X |   |   | X |   | X |   | X | X | <b>25</b>     |              |               |
| Clear Cell Focus                  |   |   |   |   |   |   |   |   |   | X |   |   | X | X |   | X |   |   |   | X |   | X |   |   |   | <b>11</b>     |              |               |
| Degeneration, Cystic              | 1 |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   | <b>4 1.5</b>  |              |               |
| Eosinophilic Focus                |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | <b>4</b>      |              |               |
| Hepatodiaphragmatic Nodule        |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>5</b>      |              |               |
| Infiltration Cellular, Mixed Cell |   |   | 1 |   |   |   |   |   |   | 1 |   |   |   | 1 | 1 |   |   |   |   | 1 |   | 1 |   |   |   | <b>18 1.1</b> |              |               |
| Mixed Cell Focus                  |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | <b>3</b>      |              |               |
| Bile Duct, Hyperplasia            | 3 | 2 |   |   |   | 2 | 3 |   |   | 2 | 3 | 3 | 1 | 3 |   |   | 1 | 3 | 3 | 2 |   | 2 |   | 1 | 4 | 3             | 3            | <b>40 2.4</b> |
| Centrilobular, Necrosis           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |               | <b>1 4.0</b> |               |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG            | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0532        | 0404  | 0163  | 0733  | 0733  | 0598  | 0458  | 0573  | 0773  | 0773  | 0773  | 0773  | 0666  | 0666  | 0767  | 0666  | 0767  | 0337  | 0773  | 0773  | 0666  | 0666  | 0666  | 0666  |          |
| ANIMAL ID                                    | 00126       | 00017 | 00028 | 00039 | 00040 | 00051 | 00062 | 00073 | 00084 | 00095 | 00106 | 00117 | 00128 | 00139 | 00150 | 00161 | 00172 | 00183 | 00194 | 00205 | 00216 | 00227 | 00238 | 00249 |          |
| Hepatocyte, Vacuolization Cytoplasmic        |             |       |       | 3     |       |       |       | 4     |       | 2     |       |       | 3     |       |       |       |       |       |       |       |       |       |       |       |          |
| Hepatocyte, Vacuolization Cytoplasmic, Focal |             |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Mesentery                                    |             |       | +     |       |       |       |       | +     | +     |       |       | +     |       | +     | +     |       |       |       | +     | +     | +     |       |       |       |          |
| Accessory Spleen                             |             |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Hemorrhage                                   |             |       |       |       |       |       |       |       |       |       |       |       |       | 4     |       |       |       |       |       |       |       |       |       |       |          |
| Fat, Necrosis                                |             |       | 2     |       |       |       |       |       |       |       | 1     |       | 3     |       |       |       |       |       | 2     | 2     | 3     |       |       |       |          |
| Pancreas                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |
| Atrophy                                      |             |       |       | 2     | 1     |       | 2     | 1     | 3     | 2     | 3     | 2     | 1     | 1     | 1     | 3     |       | 3     | 2     |       | 2     | 1     | 1     | 2     |          |
| Cyst   |             |       |       | X     | X     | X     |       | X     |       |       |       |       | X     | X     | X     |       |       |       |       | X     | X     |       |       |       |          |
| Acinus, Hyperplasia, Focal                   |             |       |       | 4     |       |       |       |       |       | 2     |       |       |       | 2     |       |       |       |       | 3     |       |       |       |       |       |          |
| Salivary Glands                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |
| Atrophy                                      |             |       |       |       |       |       |       |       |       |       |       | 1     | 1     | 2     |       | 2     |       |       |       |       |       |       |       | 9     |          |
| Inflammation, Acute                          |             |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       | 1     |          |
| Stomach, Forestomach                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |
| Edema  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| Inflammation, Chronic Active                 |             |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| Ulcer  |             |       |       |       |       |       |       |       |       | 4     |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |          |
| Epithelium, Hyperplasia                      | 2           |       | 1     |       |       |       |       |       | 1     | 4     | 1     |       | 1     |       |       | 3     |       |       | 2     |       | 2     | 1     |       | 13    |          |
| Stomach, Glandular                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49    |          |
| Edema  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          |
| Erosion                                      |             |       |       | 3     |       |       | 2     | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 6     |          |
| Ulcer  |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 4     |       |       |       |       |       |       | 2     |       | 2     |          |

**CARDIOVASCULAR SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |     |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----|
|                                   | 0532        | 0406 | 0173 | 0773 | 0549 | 0458 | 0054 | 0074 | 0077 | 0077 | 0077 | 0077 | 0066 | 0066 | 0077 | 0066 | 0036 | 0067 | 0037 | 0077 | 0066 | 0066 | 0066 | 0066 |          |     |
| ANIMAL ID                         | 0001        | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 |          |     |
| Cardiomyopathy                    | 1           | 1    | 1    | 1    | 2    | 1    |      | 2    | 2    | 2    | 1    | 2    | 2    | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 2    | 1    | 2    | 2    | 47       | 1.4 |
| Thrombosis                        |             |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      | 2        |     |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |     |
| Accessory Adrenal Cortical Nodule |   |   | 1 |   |   |   |   |   |   | 2 | 1 |   | 1 |   | 2 |   |   |   | 1 | 2 |   |   |   | 4 | 21 | 1.5 |     |
| Degeneration, Fatty               | 2 | 1 |   | 1 | 2 | 1 |   | 2 | 2 | 1 |   |   |   | 2 | 1 | 2 | 1 | 2 | 1 | 1 |   | 1 | 2 | 1 | 2  | 31  | 1.5 |
| Hyperplasia, Focal                |   |   |   | 2 | 3 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   | 9  | 1.8 |     |
| Necrosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |     |
| Capsule, Hyperplasia              |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |
| Adrenal Medulla                   | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |     |
| Hyperplasia                       |   |   |   | 1 | 1 |   |   | 1 |   | 1 |   |   | 3 | 3 |   |   |   |   |   | 3 |   |   | 2 |   | 13 | 2.2 |     |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Hyperplasia                       |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 | 3  | 3.0 |     |
| Parathyroid Gland                 | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | I | + | + | + | + | + | + | 47 |     |     |
| Hyperplasia, Focal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 1  | 2.0 |     |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Pigmentation                      |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   | 2 |   | 2 |   |   |   |   |   | 2 | 2  | 9   | 1.8 |
| Pars Distalis, Angiectasis        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |     |
| Pars Distalis, Atrophy            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 4.0 |     |
| Pars Distalis, Cyst               |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  |     |     |
| Pars Distalis, Hyperplasia, Focal |   |   |   |   |   |   | 1 | 1 |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   | 3  | 1.3 |     |
| Pars Intermedia, Angiectasis      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   | 1  | 1.0 |     |
| Pars Intermedia, Cyst             |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |     |     |
| Rathke's Cleft, Dilatation        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |   |        |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|---|--------|
|                                     | 0532        | 0406 | 0173 | 0773 | 0549 | 0458 | 0054 | 0050 | 0073 | 0077 | 0077 | 0077 | 0077 | 0066 | 0066 | 0077 | 0066 | 0036 | 0077 | 0077 |          | 0066 | 0066 |   |        |
| ANIMAL ID                           | 0000        | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000     | 0000 |      |   |        |
| Thyroid Gland                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | A    | +        | +    | A    | + | 42     |
| Degeneration, Cystic                |             |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      |      |          |      |      |   | 4 1.0  |
| Ultimobranchial Cyst                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   | 1 1.0  |
| C-cell, Hyperplasia                 |             |      |      |      |      |      |      |      |      |      |      |      | 3    |      |      |      |      |      |      |      |          |      |      |   | 2 3.0  |
| Follicular Cell, Hyperplasia, Focal |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 2    |      |   | 1 2.0  |
| <b>GENERAL BODY SYSTEM</b>          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   |        |
| Tissue NOS                          | +           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   | 2      |
| <b>GENITAL SYSTEM</b>               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   |        |
| Epididymis                          | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | + | 50     |
| Preputial Gland                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | + | 50     |
| Hyperplasia                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   | 1 3.0  |
| Inflammation, Chronic               |             |      |      |      |      |      |      | 2    |      | 2    | 2    | 3    | 2    |      | 2    |      | 2    |      | 2    |      |          |      | 2    |   | 18 2.2 |
| Prostate                            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | + | 50     |
| Fibrosis                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 2    |   | 1 2.0  |
| Inflammation, Chronic               |             |      |      |      | 1    | 1    | 1    |      |      |      |      |      | 1    |      |      | 3    | 2    | 4    |      |      | 4        | 2    |      | 2 | 23 2.3 |
| Necrosis                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   | 1 4.0  |
| Epithelium, Hyperplasia             |             |      |      |      |      |      |      |      |      |      |      | 1    |      |      | 2    | 2    | 2    |      |      | 2    | 1        |      | 1    | 1 | 18 1.3 |
| Seminal Vesicle                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | + | 50     |
| Inflammation, Acute                 |             |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      |      |      |      |      |          |      |      |   | 1 1.0  |
| Testes                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | + | 50     |
| Germinal Epithelium, Atrophy        |             |      |      |      |      |      |      |      |      |      |      | 4    |      |      |      |      |      |      |      |      |          |      | 3    | 1 | 3 2.7  |
| Interstitial Cell, Hyperplasia      |             |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      | 2    |      |      | 4    |      |          |      | 1    |   | 6 1.7  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 I .. Insufficient tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   | * TOTALS |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|----------|
|                                   | 0532        | 0404 | 0163 | 0733 | 0733 | 0599 | 0485 | 0574 | 0773 | 0773 | 0773 | 0773 | 0666 | 0667 | 0766 | 0663 | 0366 | 0773 | 0773 | 0666 | 0066 | 0066 | 0066 |   |          |
| ANIMAL ID                         | 001         | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  |   |          |
|                                   | 6           | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9 | 0        |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Bone Marrow<br>Hyperplasia  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 12  | 2.3 |     |
| Lymph Node<br>Mediastinal, Hyperplasia, Lymphoid<br>Mediastinal, Pigmentation   |   |   |   | + |   |   | + | + |   |   | + |   |   |   | + | + |   |   |   |   |   | + |   |   | 12 | 3   | 3.0 |     |
| Lymph Node, Mandibular  | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M  | 0   |     |     |
| Lymph Node, Mesenteric<br>Ectasia<br>Hemorrhage<br>Hyperplasia, Lymphoid<br>Necrosis  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1   | 2.0 |     |
|   | 2 |   |   |   |   |   |   |   | 2 | 2 |   |   | 1 |   |   |   |   | 3 |   |   | 1 |   |   |   | 10 | 1.6 |     |     |
|   |   |   | 2 |   |   |   |   |   | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  | 2.0 |     |     |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   | 2  | 2.0 |     |     |
| Spleen<br>Fibrosis<br>Hematopoietic Cell Proliferation<br>Infarct<br>Necrosis<br>Pigmentation<br>Lymphoid Follicle, Atrophy<br>Lymphoid Follicle, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 49 | 1   | 2.0 |     |
|   | 4 |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 4.0 |     |     |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0 |     |     |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 3.0 |     |     |
|   |   |   | 1 |   |   |   |   |   | 1 | 2 |   | 1 | 2 | 4 | 2 | 2 |   | 3 |   | 2 |   | 2 | 4 | 2 | 2  | 3   | 30  | 2.1 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   | 2  | 2.0 |     |     |
|   |   |   |   |   |   |   |   | 1 |   |   |   | 1 | 2 |   |   |   |   |   |   |   |   |   | 1 |   | 8  | 1.6 |     |     |
| Thymus<br>Ectopic Parathyroid Gland   | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 45 | 1   | 1.0 |     |

**INTEGUMENTARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST                       | FISCHER 344 RATS MALE |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |        |        |
|-----------------------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|--------|
|                                   | 0532                  | 0404  | 0163  | 0773  | 0759  | 0484  | 0574  | 0777  | 0777  | 0777  | 0777  | 0666  | 0666  | 0777  | 0666  | 0666  | 0363  | 0677  | 0377  | 0776  |          | 0066  |       |       |        |        |
| ANIMAL ID                         | 00126                 | 00078 | 00030 | 00030 | 00030 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00034 | 00044 | 00044 | 00044 | 00044 | 00044    | 00044 | 00044 | 00045 | 00067  |        |
| Mammary Gland Duct, Ectasia       | +                     | +     | +     | +     | +     | +     | +     | +     | I     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 49     |        |
|                                   |                       |       |       | 2     |       | 1     | 2     | 1     |       | 1     | 2     | 1     | 3     | 1     | 3     | 2     |       |       | 1     | 3     | 2        | 1     | 2     | 2     | 3      | 34 1.8 |
| Skin                              | +                     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50     |        |
| Cyst Epithelial Inclusion         |                       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |          |       | X     |       | 4      |        |
| Hyperkeratosis                    |                       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       | 4     |       |          | 2     |       |       | 5 2.8  |        |
| Inflammation, Chronic             |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        | 2     |       |       | 4 2.3  |        |
| Mineralization                    |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 2.0  |        |
| Necrosis                          |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 3     |       | 1 3.0  |        |
| Epidermis, Hyperplasia            |                       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |          | 3     |       |       | 3 2.7  |        |
| Subcutaneous Tissue, Fibrosis     |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 1.0  |        |
| <b>MUSCULOSKELETAL SYSTEM</b>     |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        |        |
| Bone                              | +                     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50     |        |
| Femur, Osteopetrosis              |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |          |       |       | 2     |        | 2 2.0  |
| Skeletal Muscle                   | +                     |       |       |       |       |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |          |       |       |       | 2      |        |
| <b>NERVOUS SYSTEM</b>             |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        |        |
| Brain                             | +                     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50     |        |
| Compression                       |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | X     |       |       | X        | X     |       |       | X      | 11     |
| Mineralization                    |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |          |       |       |       | 1 2.0  |        |
| Necrosis                          |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4     |       |       |       |          |       |       |       | 1 4.0  |        |
| <b>RESPIRATORY SYSTEM</b>         |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        |        |
| Lung                              | +                     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50     |        |
| Infiltration Cellular, Histiocyte | 1                     |       |       | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 1     | 1     | 1     |       |       | 1     |          | 1     |       |       | 33 1.1 |        |
| Inflammation, Chronic             |                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | 1     | 2 1.5  |        |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG    | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |    |     |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----|-----|
|                                      | 0<br>5<br>3<br>2      | 0<br>4<br>0<br>4      | 0<br>1<br>6<br>3      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>5<br>9<br>9      | 0<br>4<br>8<br>5      | 0<br>5<br>4<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>7<br>2      | 0<br>7<br>7<br>0      | 0<br>7<br>7<br>0      | 0<br>6<br>3<br>1      | 0<br>6<br>6<br>3      | 0<br>7<br>2<br>9      | 0<br>6<br>5<br>9      | 0<br>3<br>1<br>4      | 0<br>6<br>2<br>2      | 0<br>7<br>3<br>0      | 0<br>7<br>1<br>8      | 0<br>6<br>3<br>7      | 0<br>6<br>1<br>6      | 0<br>6<br>3<br>9      |                       |          |    |     |
| ANIMAL ID                            | 0<br>0<br>1<br>2<br>6 | 0<br>0<br>1<br>2<br>7 | 0<br>0<br>1<br>2<br>8 | 0<br>0<br>1<br>2<br>9 | 0<br>0<br>1<br>3<br>0 | 0<br>0<br>1<br>3<br>1 | 0<br>0<br>1<br>3<br>2 | 0<br>0<br>1<br>3<br>3 | 0<br>0<br>1<br>3<br>4 | 0<br>0<br>1<br>3<br>5 | 0<br>0<br>1<br>3<br>6 | 0<br>0<br>1<br>3<br>7 | 0<br>0<br>1<br>3<br>8 | 0<br>0<br>1<br>4<br>9 | 0<br>0<br>1<br>4<br>0 | 0<br>0<br>1<br>4<br>1 | 0<br>0<br>1<br>4<br>2 | 0<br>0<br>1<br>4<br>3 | 0<br>0<br>1<br>4<br>4 | 0<br>0<br>1<br>4<br>5 | 0<br>0<br>1<br>4<br>6 | 0<br>0<br>1<br>4<br>7 | 0<br>0<br>1<br>4<br>8 | 0<br>0<br>1<br>4<br>9 |          |    |     |
| Metaplasia, Osseous                  |                       |                       |                       |                       | 1                     | 1                     |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |          | 6  | 1.2 |
| Alveolar Epithelium, Hyperplasia     |                       |                       |                       |                       | 1                     |                       | 2                     |                       | 2                     | 1                     | 4                     |                       | 1                     |                       | 1                     | 1                     |                       |                       | 1                     |                       | 1                     | 3                     |                       |                       |          | 19 | 1.5 |
| Nose                                 | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +        | 50 |     |
| Foreign Body                         |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       | 1                     |                       |                       |          | 9  | 1.4 |
| Inflammation, Chronic                | 1                     |                       |                       | 1                     |                       |                       |                       | 1                     |                       |                       |                       |                       |                       | 1                     |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |          | 13 | 1.7 |
| Goblet Cell, Hyperplasia             |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 2                     |                       |          | 3  | 1.7 |
| Respiratory Epithelium, Hyperplasia  |                       |                       |                       | 2                     |                       |                       |                       |                       | 1                     |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          | 10 | 1.6 |
| Trachea                              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +        | 50 |     |
| <b>SPECIAL SENSES SYSTEM</b>         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |    |     |
| Eye                                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | A                     | +        | 46 |     |
| Cataract                             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |          | 10 | 1.3 |
| Bilateral, Cataract                  |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |          | 2  | 1.5 |
| Harderian Gland                      | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +        | 50 |     |
| Inflammation, Chronic                |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          | 4  | 1.0 |
| Lacrimal Gland                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          | 1  |     |
| Zymbal's Gland                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          | 1  |     |
| <b>URINARY SYSTEM</b>                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |    |     |
| Kidney                               | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | A                     | +                     | +                     | +                     | +                     | A                     | +        | 44 |     |
| Casts Protein                        |                       |                       |                       | 1                     | 2                     |                       |                       | 1                     | 3                     | 1                     | 1                     | 1                     | 1                     | 1                     | 2                     | 4                     |                       |                       |                       |                       |                       |                       | 2                     | 2                     |          | 22 | 1.5 |
| Mineralization                       | 2                     | 1                     | 1                     | 2                     | 2                     | 2                     |                       | 2                     | 2                     | 1                     |                       | 2                     | 2                     | 2                     | 2                     | 1                     |                       | 1                     |                       | 2                     | 2                     | 2                     | 1                     | 1                     |          | 41 | 1.6 |
| Nephropathy                          |                       | 1                     | 2                     | 2                     | 2                     | 1                     |                       | 2                     | 3                     | 1                     | 2                     | 2                     | 2                     | 1                     | 2                     | 4                     |                       | 1                     |                       | 2                     | 1                     | 1                     | 2                     | 2                     |          | 41 | 1.7 |
| Transitional Epithelium, Hyperplasia |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |          | 4  | 1.3 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST     | FISCHER 344 RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-----------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                 | 0532                  | 0404 | 0163 | 0730 | 0730 | 0549 | 0458 | 0750 | 0772 | 0772 | 0772 | 0772 | 0663 | 0663 | 0762 | 0665 | 0639 | 0634 | 0762 | 0371 | 0731 | 0778 | 0667 | 0668 |          |
| ANIMAL ID       | 0012                  | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024     |
| Urinary Bladder | +                     | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>50 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |      |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|
|                                   | 0603        | 0094 | 0042 | 0055 | 0023 | 0036 | 0044 | 0022 | 0033 | 0021 | 0066 | 0032 | 0011 | 0063 | 0033 | 0055 | 0033 | 0053 | 0035 | 0033 | 0017 | 0000 | 0022 | 0022 |           |                    | 0023 | 0038 |
|                                   | 003         | 004  | 002  | 005  | 005  | 009  | 003  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000       | 000                | 000  | 000  |
|                                   | 115         | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001       | 001                | 001  | 001  |
|                                   | 551         | 552  | 553  | 554  | 555  | 556  | 557  | 558  | 559  | 660  | 661  | 662  | 663  | 664  | 665  | 666  | 667  | 668  | 669  | 660  | 661  | 662  | 663  | 664  | 665       | 666                | 667  | 668  |

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus<br>Hyperkeratosis                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Necrosis, Lymphoid     | + | A | + | + | + | + | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                           | A | A | A | + | + | A | A | A | A | A | A | + | A | + | + | A | A | A | A | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Inflammation, Chronic | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Necrosis, Lymphoid  | A | A | A | + | A | + | A | A | A | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum<br>Inflammation, Acute    | + | A | A | + | + | A | A | A | + | A | A | A | + | A | A | A | A | M | A | A | + | + | + | + | + | A | + |
| Intestine Small, Jejunum                         | A | A | A | + | + | + | + | A | + | + | A | + | + | + | + | A | A | + | + | A | A | + | + | + | + | + | A |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus                                 | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Clear Cell Focus                                 |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   | X |
| Degeneration, Cystic                             |   |   |   |   | 1 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eosinophilic Focus                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibrosis   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Hepatodiaphragmatic Nodule                       |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infiltration Cellular, Mixed Cell                |   |   |   |   | 1 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |
| Mixed Cell Focus                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>50 MG/KG            | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|  | 0603        | 0042 | 0045 | 0052 | 0053 | 0066 | 0064 | 0022 | 0032 | 0011 | 0063 | 0033 | 0055 | 0033 | 0053 | 0053 | 0033 | 0053 | 0033 | 0022 | 0022 | 0022 | 0033 | 0036 |      |           |                    |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0001 |           |                    |
|  | 6           | 0    | 4    | 5    | 2    | 3    | 6    | 4    | 2    | 3    | 2    | 1    | 6    | 3    | 3    | 5    | 3    | 5    | 3    | 3    | 3    | 2    | 2    | 3    | 0002 |           |                    |
|  | 0           | 9    | 2    | 1    | 3    | 5    | 0    | 7    | 8    | 2    | 4    | 3    | 6    | 7    | 3    | 6    | 3    | 1    | 7    | 0    | 9    | 0    | 3    | 8    | 0003 |           |                    |
|  | 3           | 4    | 2    | 5    | 5    | 9    | 3    | 0    | 1    | 3    | 3    | 5    | 7    | 9    | 0    | 8    | 9    | 9    | 4    | 5    | 5    | 5    | 3    | 2    | 0004 |           |                    |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0005 |           |                    |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0006 |           |                    |
|  | 1           | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 0007 |           |                    |
|  | 5           | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7    | 7    | 7    | 7    | 0008 |           |                    |
|  | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 0009 |           |                    |
| Necrosis, Focal                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Bile Duct, Hyperplasia                       | 2           |      | 2    | 1    |      | 2    | 2    |      |      |      |      |      | 3    | 2    |      | 1    |      | 2    |      |      |      |      | 2    | 2    |      |           |                    |
| Centrilobular, Necrosis                      |             |      |      |      |      | 3    |      |      |      |      |      |      |      |      |      |      |      |      | 4    |      |      |      |      |      |      |           |                    |
| Hepatocyte, Vacuolization Cytoplasmic        |             |      |      |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Hepatocyte, Vacuolization Cytoplasmic, Focal | 1           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Mesentery                                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +         |                    |
| Accessory Spleen                             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Hemorrhage                                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Fat, Necrosis                                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2         |                    |
| Oral Mucosa                                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Pancreas                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |      |           |                    |
| Atrophy                                      |             |      |      | 3    |      |      | 1    |      |      |      |      |      | 2    |      | 1    | 2    | 4    | 2    |      |      |      |      |      |      | 1    |           |                    |
| Cyst   |             |      |      | X    |      |      | X    |      |      | X    |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Hemorrhage                                   |             |      |      |      |      |      |      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Necrosis                                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Salivary Glands                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |      |           |                    |
| Hyperplasia                                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Necrosis                                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Stomach, Forestomach                         | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |      |           |                    |
| Stromal Hyperplasia                          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Epithelium, Hyperplasia                      |             |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2    |      |      |      |           |                    |
| Stomach, Glandular                           | +           | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |      |      |           |                    |
| Erosion                                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2         |                    |
| Hemorrhage                                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | males<br>(cont...)    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                       | 0<br>6<br>0<br>3      | 0<br>0<br>9<br>4      | 0<br>4<br>2<br>2      | 0<br>5<br>1<br>5      | 0<br>2<br>3<br>5      | 0<br>3<br>5<br>9      | 0<br>6<br>0<br>3      | 0<br>4<br>7<br>0      | 0<br>2<br>8<br>1      | 0<br>3<br>2<br>3      | 0<br>2<br>4<br>3      | 0<br>1<br>3<br>5      | 0<br>6<br>6<br>7      | 0<br>3<br>3<br>9      | 0<br>5<br>6<br>8      | 0<br>3<br>3<br>9      | 0<br>5<br>3<br>4      | 0<br>3<br>0<br>5      | 0<br>2<br>9<br>5      | 0<br>2<br>0<br>5      | 0<br>2<br>3<br>3      | 0<br>2<br>8<br>2      | 0<br>3<br>1<br>0      | 0<br>6<br>8<br>1      |                       |                       | 0<br>3<br>1<br>0      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 50 MG/KG              | 0<br>0<br>1<br>5<br>1 | 0<br>0<br>1<br>5<br>2 | 0<br>0<br>1<br>5<br>3 | 0<br>0<br>1<br>5<br>4 | 0<br>0<br>1<br>5<br>5 | 0<br>0<br>1<br>5<br>6 | 0<br>0<br>1<br>5<br>7 | 0<br>0<br>1<br>5<br>8 | 0<br>0<br>1<br>5<br>9 | 0<br>0<br>1<br>6<br>0 | 0<br>0<br>1<br>6<br>1 | 0<br>0<br>1<br>6<br>2 | 0<br>0<br>1<br>6<br>3 | 0<br>0<br>1<br>6<br>4 | 0<br>0<br>1<br>6<br>5 | 0<br>0<br>1<br>6<br>6 | 0<br>0<br>1<br>6<br>7 | 0<br>0<br>1<br>6<br>8 | 0<br>0<br>1<br>6<br>9 | 0<br>0<br>1<br>7<br>0 | 0<br>0<br>1<br>7<br>1 | 0<br>0<br>1<br>7<br>2 | 0<br>0<br>1<br>7<br>3 | 0<br>0<br>1<br>7<br>4 | 0<br>0<br>1<br>7<br>5 | 0<br>0<br>1<br>7<br>6 | 0<br>0<br>1<br>7<br>7 | 0<br>0<br>1<br>7<br>8 | 0<br>0<br>1<br>7<br>9 | 0<br>0<br>1<br>7<br>0 | 0<br>0<br>1<br>7<br>1 | 0<br>0<br>1<br>7<br>2 | 0<br>0<br>1<br>7<br>3 | 0<br>0<br>1<br>7<br>4 | 0<br>0<br>1<br>7<br>5 | 0<br>0<br>1<br>7<br>6 | 0<br>0<br>1<br>7<br>7 | 0<br>0<br>1<br>7<br>8 | 0<br>0<br>1<br>7<br>9 |

Necrosis, Lymphoid

2

### CARDIOVASCULAR SYSTEM

Blood Vessel

Heart

Cardiomyopathy  
 Hemorrhage

+  
 1 1 1 2 1 2 2 1 1 2 2 1 1 1 1 1 2 1 1 2 1 1 2

### ENDOCRINE SYSTEM

Adrenal Cortex

Accessory Adrenal Cortical Nodule  
 Degeneration, Fatty  
 Hyperplasia, Focal  
 Necrosis

+  
 1 2 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1 1 1

Adrenal Medulla  
 Hyperplasia

+  
 3

Islets, Pancreatic  
 Hyperplasia

+ +

Parathyroid Gland

+ +

Pituitary Gland  
 Pigmentation  
 Pars Distalis, Angiectasis  
 Pars Distalis, Atrophy  
 Pars Distalis, Cyst

+ + + + + + + + + + + + + + + + + + + M + + + +  
 2 1 3 3

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TDMS No. 99037 - 05  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
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 Lab: SRI

| FISCHER 344 RATS MALE<br>50 MG/KG        | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
|  | 0603        | 0094 | 0042 | 0051 | 0023 | 0035 | 0060 | 0047 | 0028 | 0031 | 0012 | 0063 | 0033 | 0055 | 0033 | 0053 | 0033 | 0022 | 0022 | 0022 |           |                    | 0033 |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    |
|  | 6           | 0    | 4    | 5    | 2    | 3    | 6    | 4    | 2    | 3    | 2    | 1    | 6    | 3    | 3    | 5    | 3    | 5    | 3    | 3    | 2         | 2                  | 3    |
|  | 0           | 9    | 2    | 1    | 3    | 5    | 0    | 7    | 8    | 2    | 4    | 3    | 6    | 7    | 3    | 6    | 3    | 1    | 7    | 0    | 9         | 0                  | 3    |
|  | 3           | 4    | 2    | 5    | 5    | 9    | 3    | 0    | 1    | 3    | 3    | 5    | 7    | 9    | 0    | 8    | 9    | 9    | 4    | 5    | 5         | 5                  | 3    |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    |
|  | 1           | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1         | 1                  | 1    |
|  | 5           | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7         | 7                  | 7    |
|  | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1         | 2                  | 3    |
| Pars Distalis, Hemorrhage                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    | 2    |
| Pars Distalis, Hyperplasia, Focal        |             |      |      | 3    |      | 4    |      | 3    |      | 1    |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Pars Distalis, Necrosis                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    | 4    |
| Pars Distalis, Pars Intermedia, Necrosis |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Pars Intermedia, Angiectasis             |             |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Rathke's Cleft, Dilatation               |             |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Thyroid Gland                            | A           | +    | A    | +    | +    | +    | +    | A    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  |      |
| Degeneration, Cystic                     |             |      |      |      |      |      | 1    |      |      |      |      |      |      | 1    |      |      |      |      | 1    | 1    |           |                    | 1    |
| Ultimobranchial Cyst                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Follicular Cell, Hyperplasia, Focal      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    | 4    |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Coagulating Gland

Epididymis

Penis

Preputial Gland

Inflammation, Chronic

Prostate

Inflammation, Chronic

Epithelium, Hyperplasia

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+ .. Tissue examined microscopically

X .. Lesion present

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| FISCHER 344 RATS MALE<br>50 MG/KG  | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | ANIMAL ID | males<br>(cont...) |
|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|--------------------|
|                                    | 060030      | 060040 | 060050 | 060023 | 060036 | 060044 | 060022 | 060033 | 060016 | 060033 | 060053 | 060035 | 060033 | 060017 | 060009 | 060005 | 060005 | 060002 | 060002 | 060002 | 060003 | 060008 | 060001 | 060002 | 060003 |           |                    |
| Seminal Vesicle                    | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                  |
| Infiltration Cellular              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Inflammation, Acute                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Testes                             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                  |
| Germinal Epithelium, Atrophy       |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Interstitial Cell, Hyperplasia     |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| <b>HEMATOPOIETIC SYSTEM</b>        |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Bone Marrow                        | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                  |
| Hyperplasia                        |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Lymph Node                         |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Mediastinal, Hemorrhage            |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Mediastinal, Hyperplasia, Lymphoid |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Pancreatic, Hemorrhage             |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Pancreatic, Hyperplasia, Lymphoid  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Pancreatic, Necrosis, Lymphoid     |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Pancreatic, Pigmentation           |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Lymph Node, Mandibular             | M           | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M         | M                  |
| Congestion                         |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Hyperplasia, Lymphoid              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Lymph Node, Mesenteric             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                  |
| Hemorrhage                         |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Hyperplasia, Lymphoid              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |
| Necrosis                           |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                    |

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 2) Mild 4) Marked



TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>50 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|                                   | 0603        | 0094 | 0042 | 0051 | 0023 | 0035 | 0060 | 0047 | 0022 | 0033 | 0012 | 0066 | 0033 | 0053 | 0035 | 0033 | 0051 | 0033 | 0053 | 0022 | 0022 | 0023 | 0035 | 0038 | 0036 |           |                    |
|                                   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0001      |                    |
|                                   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0002      |                    |
|                                   | 1           | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 0003      |                    |
|                                   | 5           | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7    | 7    | 7    | 7    | 7    | 0004      |                    |
|                                   | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 0005      |                    |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Spleen                           | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Accessory Spleen                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Hematopoietic Cell Proliferation | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Necrosis                         |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pigmentation                     | 2 |   |   | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 |  |
| Lymphoid Follicle, Atrophy       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoid Follicle, Hyperplasia   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 1 |  |
| Thymus                           | + | + | + | + | + | + | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

**INTEGUMENTARY SYSTEM**

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   | + | + | + | + |  |
| Duct, Ectasia         | 2 |   |   | 1 |   | 1 | 1 | 1 | 1 |   |   |   | 1 |   |   |   |   | 1 |   |   |   |   |   |   | 4 |  |
| Skin                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Edema                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Hemorrhage            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Hyperkeratosis        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Inflammation, Chronic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |  |
| Ulcer                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Ulcer, Multiple       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**MUSCULOSKELETAL SYSTEM**

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|

**NERVOUS SYSTEM**

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Compression |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>50 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |   |   |      |  |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|---|---|------|--|
|                                   | 0603        | 0042 | 0042 | 0051 | 0052 | 0053 | 0064 | 0064 | 0072 | 0073 | 0081 | 0082 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 |           |                    | 0099 |   |   |      |  |
|                                   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0005               |      |   |   |      |  |
|                                   | 6           | 0    | 4    | 5    | 2    | 3    | 6    | 4    | 2    | 3    | 2    | 1    | 6    | 3    | 3    | 5    | 3    | 5    | 3    | 3    | 2         | 2                  | 2    | 3 | 6 | 0001 |  |
|                                   | 0           | 9    | 2    | 1    | 3    | 5    | 0    | 7    | 8    | 2    | 4    | 3    | 6    | 7    | 3    | 6    | 3    | 1    | 7    | 0    | 9         | 0                  | 3    | 8 | 1 | 0002 |  |
|                                   | 3           | 4    | 2    | 5    | 5    | 9    | 3    | 0    | 1    | 3    | 3    | 5    | 7    | 9    | 0    | 8    | 9    | 9    | 4    | 5    | 5         | 5                  | 3    | 2 | 0 | 0003 |  |
|                                   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    | 0 | 0 | 0004 |  |
|                                   | 1           | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1         | 1                  | 1    | 1 | 1 | 0005 |  |
|                                   | 5           | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7         | 7                  | 7    | 7 | 7 | 0006 |  |
|                                   | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1         | 2                  | 3    | 4 | 5 | 0007 |  |

Mineralization  
 Necrosis  
 Pigmentation

2 1 3

**RESPIRATORY SYSTEM**

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Histiocyte   | 1 |   | 1 |   |   |   | 1 | 1 |   | 1 |   |   | 1 |   |   | 1 |   |   | 1 | 1 | 1 |   | 1 | 1 |
| Inflammation, Chronic               |   |   | 2 |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   | 1 | 1 |
| Metaplasia, Osseous                 |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar Epithelium, Hyperplasia    |   |   |   |   |   |   |   |   |   | 1 |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |
| Nose                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Congestion                          |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Foreign Body                        | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Chronic               | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Goblet Cell, Hyperplasia            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Respiratory Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Trachea                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                        | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract                   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Developmental Malformation |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99037 - 05  
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 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST           | FISCHER 344 RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males<br>(cont...) |
|-----------------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
|                       | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                    |
| 6                     | 0                     | 0 | 4 | 5 | 2 | 3 | 6 | 4 | 2 | 3 | 2 | 1 | 6 | 3 | 3 | 5 | 3 | 5 | 3 | 3 | 2 | 2 | 2 | 3 | 6 | 0         |                    |
| 0                     | 9                     | 2 | 1 | 3 | 5 | 0 | 7 | 8 | 2 | 4 | 3 | 6 | 7 | 3 | 6 | 3 | 1 | 7 | 0 | 9 | 0 | 3 | 8 | 1 | 0 |           |                    |
| 3                     | 4                     | 2 | 5 | 5 | 9 | 3 | 0 | 1 | 3 | 3 | 5 | 7 | 9 | 0 | 8 | 9 | 9 | 4 | 5 | 5 | 5 | 3 | 2 | 0 | 0 |           |                    |
| 0                     | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                    |
| 1                     | 1                     | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |           |                    |
| 5                     | 5                     | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 0 |           |                    |
| 1                     | 2                     | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 0 |           |                    |
| Inflammation, Chronic |                       |   |   |   |   |   | 1 |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |           |                    |

**URINARY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Casts Protein                        | 2 |   |   |   |   | 3 | 2 |   |   | 1 |   |   | 2 |   |   | 1 |   |   |   |   |   |   |   | 1 |   |
| Inflammation, Suppurative            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mineralization                       | 2 |   |   | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 |   | 2 | 2 | 2 |
| Nephropathy                          | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Renal Tubule, Necrosis               |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |
| Transitional Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hemorrhage                           |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Chronic                |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Transitional Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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| FISCHER 344 RATS MALE<br>50 MG/KG | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  | * TOTALS |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
|                                   | 0269        | 0330  | 0217  | 0124  | 0225  | 0555  | 0599  | 0411  | 0229  | 0122  | 0222  | 0222  | 0743  | 0433  | 0313  | 0340  | 0335  | 0403  | 0367  | 0137  | 0322  | 0323  | 0033  |  |          |
| ANIMAL ID                         | 00176       | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 |  |          |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|--|
| Esophagus<br>Hyperkeratosis                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1   | 2.0 |  |
| Intestine Large, Cecum<br>Necrosis, Lymphoid     | A | + | A | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | A | A | + | A | + | 39 | 1   | 1.0 |  |
| Intestine Large, Colon                           | A | + | A | A | + | + | A | A | A | A | + | + | A | A | A | + | A | A | A | A | A | A | A | 15 |     |     |  |
| Intestine Large, Rectum<br>Inflammation, Chronic | + | + | A | + | + | + | + | + | + | A | + | + | + | A | + | M | + | + | + | A | + | + | + | 42 | 1   | 2.0 |  |
| Intestine Small, Duodenum<br>Necrosis, Lymphoid  | + | + | A | + | + | + | + | A | + | + | + | + | A | + | + | + | + | A | A | + | + | A | A | 33 | 1   | 1.0 |  |
| Intestine Small, Ileum<br>Inflammation, Acute    | A | + | A | + | + | + | A | A | A | A | + | + | A | A | A | + | A | + | A | M | A | A | A | 16 | 1   | 1.0 |  |
| Intestine Small, Jejunum                         | A | + | A | A | + | + | A | A | A | + | A | + | + | + | A | A | + | + | A | A | A | A | A | +  | 25  |     |  |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |  |
| Basophilic Focus                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   | 4  |     |     |  |
| Clear Cell Focus                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 4  |     |     |  |
| Degeneration, Cystic                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.0 |     |  |
| Eosinophilic Focus                               |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |     |     |  |
| Fibrosis   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |  |
| Hepatodiaphragmatic Nodule                       |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 3  |     |     |  |
| Infiltration Cellular, Mixed Cell                |   |   |   |   |   |   |   | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   | 1 |   |   | 1 | 9  | 1.1 |     |  |
| Mixed Cell Focus                                 |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | 2  |     |     |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |   |              |   |  |
|-------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|--------------|---|--|
|             | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0 | 0            | 0 |  |
| 2           | 3                     | 2 | 1 | 2 | 2 | 5 | 5 | 4 | 2 | 1 | 2 | 2 | 2 | 7 | 4 | 3 | 1 | 3 | 3 | 4 | 1        | 3 | 2            | 3 |  |
| 6           | 3                     | 1 | 7 | 4 | 5 | 9 | 9 | 1 | 1 | 9 | 3 | 1 | 8 | 1 | 6 | 3 | 3 | 4 | 0 | 3 | 5        | 7 | 2            | 3 |  |
| 9           | 0                     | 2 | 8 | 6 | 7 | 0 | 0 | 4 | 1 | 2 | 9 | 3 | 1 | 4 | 3 | 7 | 5 | 0 | 9 | 6 | 7        | 9 | 2            | 0 |  |
| 0           | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0            | 0 |  |
| 0           | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0            | 0 |  |
| 1           | 1                     | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1            | 2 |  |
| 7           | 7                     | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9        | 9 | 9            | 0 |  |
| 6           | 7                     | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7        | 8 | 9            | 0 |  |
|             |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   | <b>2</b>     |   |  |
|             |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   | <b>2 2.0</b> |   |  |

Necrosis, Lymphoid

2

2 2.0

**CARDIOVASCULAR SYSTEM**

Blood Vessel

+

1

Heart

Cardiomyopathy  
Hemorrhage

+  
 1 1 2 1 1 2 1 1 1 1 2 2 1 2 1 2 1 1 1 2 2 1

50

45 1.3  
2 2.0

**ENDOCRINE SYSTEM**

Adrenal Cortex

Accessory Adrenal Cortical Nodule  
Degeneration, Fatty  
Hyperplasia, Focal  
Necrosis

+  
 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 2 2 1

50

4 1.0  
34 1.2  
4 1.3  
2 1.5

Adrenal Medulla  
Hyperplasia

+ M + + + +

49

1 3.0

Islets, Pancreatic  
Hyperplasia

+ +

50

1 3.0

Parathyroid Gland

+ M + +

49

Pituitary Gland  
Pigmentation  
Pars Distalis, Angiectasis  
Pars Distalis, Atrophy  
Pars Distalis, Cyst

+  
 1  
2  
X X

49

1 1.0  
3 1.7  
2 3.0  
2

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>50 MG/KG        | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |   |       |       |       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|-------|-------|-------|
|  | 0<br>2<br>6<br>9      | 0<br>3<br>3<br>0      | 0<br>2<br>1<br>2      | 0<br>1<br>7<br>8      | 0<br>2<br>4<br>6      | 0<br>2<br>5<br>7      | 0<br>5<br>9<br>0      | 0<br>5<br>9<br>0      | 0<br>4<br>1<br>4      | 0<br>2<br>1<br>1      | 0<br>2<br>9<br>2      | 0<br>2<br>3<br>9      | 0<br>2<br>1<br>1      | 0<br>2<br>8<br>1      | 0<br>7<br>1<br>4      | 0<br>4<br>6<br>3      | 0<br>3<br>3<br>7      | 0<br>1<br>3<br>5      | 0<br>3<br>4<br>0      | 0<br>3<br>0<br>9      | 0<br>4<br>3<br>6      | 0<br>1<br>7<br>7      | 0<br>3<br>2<br>9      | 0<br>2<br>2<br>0      |                       |   |       |       |       |
| ANIMAL ID                                | 0<br>0<br>1<br>7<br>6 | 0<br>0<br>1<br>7<br>7 | 0<br>0<br>1<br>7<br>8 | 0<br>0<br>1<br>7<br>9 | 0<br>0<br>1<br>8<br>0 | 0<br>0<br>1<br>8<br>1 | 0<br>0<br>1<br>8<br>2 | 0<br>0<br>1<br>8<br>3 | 0<br>0<br>1<br>8<br>4 | 0<br>0<br>1<br>8<br>5 | 0<br>0<br>1<br>8<br>6 | 0<br>0<br>1<br>8<br>7 | 0<br>0<br>1<br>8<br>8 | 0<br>0<br>1<br>8<br>9 | 0<br>0<br>1<br>9<br>0 | 0<br>0<br>1<br>9<br>1 | 0<br>0<br>1<br>9<br>2 | 0<br>0<br>1<br>9<br>3 | 0<br>0<br>1<br>9<br>4 | 0<br>0<br>1<br>9<br>5 | 0<br>0<br>1<br>9<br>6 | 0<br>0<br>1<br>9<br>7 | 0<br>0<br>1<br>9<br>8 | 0<br>0<br>1<br>9<br>9 | 0<br>0<br>1<br>9<br>0 |   |       |       |       |
| Pars Distalis, Hemorrhage                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 | 2 2.5 |       |       |
| Pars Distalis, Hyperplasia, Focal        |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       | 5 2.6 |       |
| Pars Distalis, Necrosis                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       | 1 4.0 |       |
| Pars Distalis, Pars Intermedia, Necrosis |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4 | 1 4.0 |       |       |
| Pars Intermedia, Angiectasis             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       | 1 1.0 |       |
| Rathke's Cleft, Dilatation               |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       | 3 1.3 |       |
| Thyroid Gland                            | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | 45    |       |       |
| Degeneration, Cystic                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       | 7 1.3 |       |
| Ultimobranchial Cyst                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       | 2 1.5 |       |
| Follicular Cell, Hyperplasia, Focal      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       | 1 4.0 |       |
| <b>GENERAL BODY SYSTEM</b>               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       |       |       |
| NONE                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       |       |       |
| <b>GENITAL SYSTEM</b>                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       |       |       |
| Coagulating Gland                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       | 1     |       |
| Epididymis                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | +     | 50    |       |
| Penis                                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       | 1     |       |
| Preputial Gland                          | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | +     | 50    |       |
| Inflammation, Chronic                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       |       | 5 2.2 |
| Prostate                                 | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | +     | 50    |       |
| Inflammation, Chronic                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       |       | 9 2.0 |
| Epithelium, Hyperplasia                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |       |       | 4 1.5 |

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>50 MG/KG  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |  |  |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|
|                                    | 0<br>2<br>6<br>9      | 0<br>3<br>3<br>0      | 0<br>2<br>1<br>2      | 0<br>1<br>7<br>8      | 0<br>2<br>4<br>6      | 0<br>2<br>5<br>7      | 0<br>5<br>9<br>0      | 0<br>5<br>9<br>0      | 0<br>4<br>1<br>4      | 0<br>2<br>1<br>1      | 0<br>2<br>2<br>2      | 0<br>2<br>1<br>9      | 0<br>2<br>3<br>1      | 0<br>2<br>2<br>8      | 0<br>7<br>1<br>4      | 0<br>4<br>6<br>3      | 0<br>3<br>3<br>7      | 0<br>1<br>3<br>5      | 0<br>3<br>4<br>0      | 0<br>3<br>3<br>6      | 0<br>4<br>5<br>7      | 0<br>1<br>3<br>9      | 0<br>2<br>2<br>0      | 0<br>3<br>3<br>0      |                       |  |  |
| ANIMAL ID                          | 0<br>0<br>1<br>7<br>6 | 0<br>0<br>1<br>7<br>7 | 0<br>0<br>1<br>7<br>8 | 0<br>0<br>1<br>7<br>9 | 0<br>0<br>1<br>8<br>0 | 0<br>0<br>1<br>8<br>1 | 0<br>0<br>1<br>8<br>2 | 0<br>0<br>1<br>8<br>3 | 0<br>0<br>1<br>8<br>4 | 0<br>0<br>1<br>8<br>5 | 0<br>0<br>1<br>8<br>6 | 0<br>0<br>1<br>8<br>7 | 0<br>0<br>1<br>8<br>8 | 0<br>0<br>1<br>8<br>9 | 0<br>0<br>1<br>9<br>0 | 0<br>0<br>1<br>9<br>1 | 0<br>0<br>1<br>9<br>2 | 0<br>0<br>1<br>9<br>3 | 0<br>0<br>1<br>9<br>4 | 0<br>0<br>1<br>9<br>5 | 0<br>0<br>1<br>9<br>6 | 0<br>0<br>1<br>9<br>7 | 0<br>0<br>1<br>9<br>8 | 0<br>0<br>1<br>9<br>9 | 0<br>0<br>1<br>9<br>0 |  |  |
| Seminal Vesicle                    | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |  |  |
| Infiltration Cellular              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 4.0                 |  |  |
| Inflammation, Acute                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 1.0                 |  |  |
| Testes                             | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                       |  |  |
| Germinal Epithelium, Atrophy       |                       |                       |                       |                       |                       |                       | 4                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     |                       |                       | 4 3.5                 |  |  |
| Interstitial Cell, Hyperplasia     | 1                     | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       | 1                     | 1                     | 2                     |                       |                       | 1                     | 13 1.7                |  |  |
| <b>HEMATOPOIETIC SYSTEM</b>        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |  |
| Bone Marrow                        | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                       |  |  |
| Hyperplasia                        |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       | 4 1.8                 |  |  |
| Lymph Node                         |                       |                       |                       | +                     |                       |                       |                       |                       |                       | +                     |                       |                       |                       |                       |                       |                       |                       | +                     |                       | +                     |                       |                       |                       | 5                     |                       |  |  |
| Mediastinal, Hemorrhage            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       | 1 1.0                 |                       |  |  |
| Mediastinal, Hyperplasia, Lymphoid |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       | 1 2.0                 |                       |  |  |
| Pancreatic, Hemorrhage             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     |                       |                       | 1 4.0                 |                       |  |  |
| Pancreatic, Hyperplasia, Lymphoid  |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 2.0                 |                       |  |  |
| Pancreatic, Necrosis, Lymphoid     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       | 1 1.0                 |                       |  |  |
| Pancreatic, Pigmentation           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       | 1 2.0                 |                       |  |  |
| Lymph Node, Mandibular             | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | +                     | M                     | M                     | +                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | 3                     |                       |  |  |
| Congestion                         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |                       |  |  |
| Hyperplasia, Lymphoid              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |                       |  |  |
| Lymph Node, Mesenteric             | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                       |  |  |
| Hemorrhage                         |                       |                       | 2                     | 1                     |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 1                     | 1                     |                       |                       |                       | 10 1.3                |                       |  |  |
| Hyperplasia, Lymphoid              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 2.3                 |                       |  |  |
| Necrosis                           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |                       |  |  |

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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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| DAY ON TEST                      | FISCHER 344 RATS MALE |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|                                  | 0<br>2<br>6<br>9      | 0<br>3<br>3<br>0      | 0<br>2<br>1<br>2      | 0<br>1<br>7<br>8      | 0<br>2<br>4<br>6      | 0<br>2<br>5<br>7      | 0<br>5<br>9<br>0      | 0<br>5<br>9<br>0      | 0<br>4<br>1<br>4      | 0<br>2<br>1<br>1      | 0<br>2<br>2<br>2      | 0<br>2<br>2<br>2      | 0<br>7<br>1<br>4      | 0<br>4<br>6<br>3      | 0<br>3<br>3<br>7      | 0<br>1<br>3<br>5      | 0<br>3<br>4<br>0      | 0<br>3<br>3<br>6      | 0<br>4<br>5<br>7      | 0<br>1<br>3<br>9      | 0<br>3<br>2<br>2      | 0<br>2<br>3<br>0      |                       |                       |          |
| ANIMAL ID                        | 0<br>0<br>1<br>7<br>6 | 0<br>0<br>1<br>7<br>7 | 0<br>0<br>1<br>7<br>8 | 0<br>0<br>1<br>7<br>9 | 0<br>0<br>1<br>8<br>0 | 0<br>0<br>1<br>8<br>1 | 0<br>0<br>1<br>8<br>2 | 0<br>0<br>1<br>8<br>3 | 0<br>0<br>1<br>8<br>4 | 0<br>0<br>1<br>8<br>5 | 0<br>0<br>1<br>8<br>6 | 0<br>0<br>1<br>8<br>7 | 0<br>0<br>1<br>8<br>8 | 0<br>0<br>1<br>8<br>9 | 0<br>0<br>1<br>9<br>0 | 0<br>0<br>1<br>9<br>1 | 0<br>0<br>1<br>9<br>2 | 0<br>0<br>1<br>9<br>3 | 0<br>0<br>1<br>9<br>4 | 0<br>0<br>1<br>9<br>5 | 0<br>0<br>1<br>9<br>6 | 0<br>0<br>1<br>9<br>7 | 0<br>0<br>1<br>9<br>8 | 0<br>0<br>1<br>9<br>9 |          |
| Spleen                           | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48       |
| Accessory Spleen                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |
| Hematopoietic Cell Proliferation |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0    |
| Necrosis                         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 1.0    |
| Pigmentation                     | 2                     | 2                     | 2                     | 2                     | 3                     | 2                     | 3                     | 3                     | 2                     | 2                     | 1                     |                       |                       |                       |                       |                       | 2                     | 2                     | 2                     |                       | 1                     |                       |                       |                       | 46 2.2   |
| Lymphoid Follicle, Atrophy       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0    |
| Lymphoid Follicle, Hyperplasia   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 1.7    |
| Thymus                           | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 47       |
| <b>INTEGUMENTARY SYSTEM</b>      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Mammary Gland                    | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 42       |
| Duct, Ectasia                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 15 1.5   |
| Skin                             | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50       |
| Edema                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0    |
| Hemorrhage                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0    |
| Hyperkeratosis                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0    |
| Inflammation, Chronic            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 1.7    |
| Ulcer                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 3.5    |
| Ulcer, Multiple                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 3.0    |
| <b>MUSCULOSKELETAL SYSTEM</b>    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Bone                             | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50       |
| <b>NERVOUS SYSTEM</b>            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Brain                            | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50       |
| Compression                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1        |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST    | FISCHER 344 RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |   |          |            |            |            |
|----------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|----------|------------|------------|------------|
|                | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0 | 0        |            |            |            |
| 2              | 3                     | 2 | 1 | 2 | 2 | 5 | 5 | 4 | 2 | 1 | 2 | 2 | 2 | 7 | 4 | 3 | 1 | 3 | 3 | 4 | 1        | 3 | 2        | 3          |            |            |
| 6              | 3                     | 1 | 7 | 4 | 5 | 9 | 9 | 1 | 1 | 9 | 3 | 1 | 8 | 1 | 6 | 3 | 3 | 4 | 0 | 3 | 5        | 7 | 2        | 3          |            |            |
| 9              | 0                     | 2 | 8 | 6 | 7 | 0 | 0 | 4 | 1 | 2 | 9 | 3 | 1 | 4 | 3 | 7 | 5 | 0 | 9 | 6 | 7        | 9 | 2        | 0          |            |            |
|                | ANIMAL ID             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |          |            |            |            |
| 0              | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0        | 0          |            |            |
| 1              | 1                     | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1        | 1 | 1        | 2          |            |            |
| 7              | 7                     | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9        | 9 | 9        | 0          |            |            |
| 6              | 7                     | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7        | 8 | 9        | 0          |            |            |
|                |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   | <b>1</b> | <b>2.0</b> |            |            |
| Mineralization |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |          | <b>1</b>   | <b>2.0</b> |            |
| Necrosis       |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |          | <b>3</b>   | <b>2.7</b> |            |
| Pigmentation   |                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   | <b>1</b> |            | <b>3</b>   | <b>1.0</b> |

**RESPIRATORY SYSTEM**

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |           |            |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|------------|
| Lung                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |           |            |
| Infiltration Cellular, Histiocyte   |   |   |   |   |   | 1 | 1 |   |   |   |   |   |   | 1 |   | 1 |   | 1 | 1 |   |   | 1 |   |           | <b>18</b> | <b>1.0</b> |
| Inflammation, Chronic               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>4</b>  | <b>1.5</b> |
| Metaplasia, Osseous                 |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>2</b>  | <b>1.5</b> |
| Thrombosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1</b>  |            |
| Alveolar Epithelium, Hyperplasia    |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>3</b>  | <b>2.0</b> |
| Nose                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |           |            |
| Congestion                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1</b>  | <b>3.0</b> |
| Foreign Body                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1</b>  | <b>2.0</b> |
| Inflammation, Chronic               |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |           | <b>2</b>  | <b>1.5</b> |
| Goblet Cell, Hyperplasia            |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1</b>  | <b>2.0</b> |
| Respiratory Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1</b>  | <b>1.0</b> |
| Trachea                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |           |            |

**SPECIAL SENSES SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |          |            |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Eye                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b> |          |            |
| Cataract                   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |           | <b>2</b> | <b>2.5</b> |
| Developmental Malformation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1</b> | <b>3.0</b> |
| Harderian Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |          |            |
| Hyperplasia, Focal         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1</b> | <b>1.0</b> |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |     |
|-------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-----|
|             | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |     |
| 2           | 3                     | 2 | 1 | 2 | 2 | 5 | 5 | 4 | 2 | 1 | 2 | 2 | 2 | 7 | 4 | 3 | 1 | 3 | 3 | 4 | 1 | 3 | 2 | 3 | 5        | 1.2 |
| 6           | 3                     | 1 | 7 | 4 | 5 | 9 | 9 | 1 | 1 | 9 | 3 | 1 | 8 | 1 | 6 | 3 | 3 | 4 | 0 | 3 | 5 | 7 | 2 | 3 |          |     |
| 9           | 0                     | 2 | 8 | 6 | 7 | 0 | 0 | 4 | 1 | 2 | 9 | 3 | 1 | 4 | 3 | 7 | 5 | 0 | 9 | 6 | 7 | 9 | 2 | 0 | 1        | 5   |
| 0           | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |     |
| 0           | 0                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5        | 1.2 |
| 1           | 1                     | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |          |     |
| 7           | 7                     | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 1        | 5   |
| 6           | 7                     | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |          |     |

**URINARY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |     |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Kidney                               | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | +  | 49 |     |     |
| Casts Protein                        |   |   |   |   |   |   | 1 |   | 1 |   |   | 3 |   |   | 1 |   |   |   |   |   |   |   |   |   |    |    | 11  | 1.6 |
| Inflammation, Suppurative            |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |    |    | 1   | 1.0 |
| Mineralization                       | 1 | 1 |   |   | 1 | 1 | 2 | 1 | 2 | 1 |   | 1 |   | 1 |   | 2 |   | 2 | 1 | 2 |   |   | 1 | 1 |    | 38 | 1.5 |     |
| Nephropathy                          | 1 |   | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 |   |   | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 |    | 46 | 1.3 |     |
| Renal Tubule, Necrosis               |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |    | 2  | 2.5 |     |
| Transitional Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |    | 2  | 2.5 |     |
| Urinary Bladder                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |     |
| Hemorrhage                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 1.0 |     |
| Inflammation, Chronic                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 1.0 |     |
| Transitional Epithelium, Hyperplasia |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 2.0 |     |

\*\*\* END OF MALE DATA \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
alpha/beta Thujone mixture  
CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
Time Report Requested: 08:56:05  
First Dose M/F: 06/09/03 / 06/09/03  
Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
| 0 MG/KG                 | 7           | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 |                      |
|                         | 3           | 3 | 3 | 3 | 7 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 |                      |
|                         | 1           | 1 | 1 | 1 | 7 | 0 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 1 | 1 | 1 | 1 | 1 |                      |
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
|                         | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |                      |
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |                      |
|                         | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |                      |

**ALIMENTARY SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Diverticulum                          |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Cecum                | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum               | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum             | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum              | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Basophilic Focus                      | X | X | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus                      | X |   |   |   |   | X |   |   |   |   |   |   | X |   | X |   | X |   | X | X |   | X |
| Eosinophilic Focus                    |   |   |   |   |   |   |   | X | X |   |   | X |   |   | X |   | X |   |   |   |   |   |
| Hematopoietic Cell Proliferation      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatodiaphragmatic Nodule            |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Infiltration Cellular, Mixed Cell     |   |   |   | 1 | 1 |   |   | 1 | 2 | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 |   | 1 | 1 | 1 | 1 |
| Mixed Cell Focus                      |   |   |   |   |   |   | X | X |   |   |   | X |   | X |   |   | X | X |   |   | X |   |
| Necrosis, Focal                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Hyperplasia                |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |
| Capsule, Fibrosis                     |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocyte, Vacuolization Cytoplasmic |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|                         | 0731        | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 |                      |
| 0 MG/KG                 | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| 0020                    | 0020        | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 | 0020 |                      |

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mesentery<br>Fat, Necrosis    |   |   | + |   | + |   |   |   | + |   | + |   |   |   | + |   |   |   | + |   |   |   |   |   |
|                               |   |   | 3 |   | 2 |   |   |   | 3 |   | 2 |   |   |   | 2 |   |   |   | 2 |   |   |   |   |   |
| Pancreas<br>Atrophy           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                          |   |   |   |   | 1 |   |   |   | 1 |   |   | 3 |   | 1 | 3 | 1 | 1 | 2 | 1 |   | 1 | 2 | 1 | 3 |
| Acinus, Hyperplasia, Focal    |   |   |   |   |   |   |   | X |   | X | X |   |   |   | X |   | X | X |   |   |   |   | X |   |
| Salivary Glands<br>Atrophy    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|                               |   |   | 1 |   |   |   |   |   | 2 |   |   | 1 |   | 1 | 1 |   |   | 1 |   |   |   |   |   | 1 |
| Stomach, Forestomach<br>Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ulcer                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epithelium, Hyperplasia       |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |
| Stomach, Glandular<br>Edema   | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Erosion                       |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ulcer                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Tongue<br>Hyperplasia         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**CARDIOVASCULAR SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart<br>Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|                         | 1 | 1 | 1 | 2 | 1 | 1 | 1 |   | 1 | 1 | 1 | 2 | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

|                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                         | ANIMAL ID   | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 0 MG/KG                 |             | 3 | 3 | 3 | 3 | 7 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                         |             | 1 | 1 | 1 | 1 | 7 | 0 | 6 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                         |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |   |   |   |   |   |   |   |   |   |   |   |   |

females (cont...)

ENDOCRINE SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                    | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Accessory Adrenal Cortical Nodule |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   | 1 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Degeneration, Fatty               |   |   |   | 1 |   | 2 |   |   | 1 | 1 | 2 |   | 1 |   |   |   | 3 | 1 | 1 | 2 |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   | 4 |   |   |
| Hematopoietic Cell Proliferation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Focal                | 1 |   | 1 |   |   |   |   |   | 1 | 2 |   | 1 | 2 | 1 |   |   | 2 | 2 |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |
| Hypertrophy, Focal                | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla                   | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation                      |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Angiectasis        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |
| Pars Distalis, Cyst               |   |   | X | X |   |   | X |   |   | X | X |   | X | X | X | X | X | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Hyperplasia, Focal |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Intermedia, Angiectasis      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Intermedia, Cyst             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Intermedia, Hyperplasia      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Rathke's Cleft, Dilatation        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland                     | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Degeneration, Cystic              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|
|                         | 0731        | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 |           |                   |
| 0 MG/KG                 | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                 |
|                         | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                 |
|                         | 2           | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2         | 2                 |
|                         | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 2    | 2    | 2    | 2    | 2         | 2                 |
|                         | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6         | 7                 |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular Hyperplasia, Lymphoid | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mesenteric Atrophy               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemorrhage                                   | 2 |   |   |   |   |   |   | 2 |   |   |   |   | 1 | 2 |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Lymphoid                        |   |   |   |   |   |   |   | 3 |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   | 1 |   |   |   |
| Spleen                                       | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hematopoietic Cell Proliferation             | 2 |   | 1 | 1 |   | 1 |   | 1 | 1 | 2 |   | 1 |   | 2 |   | 1 |   |   |   | 1 |   | 1 | 2 | 2 | 2 |   |   |
| Hemorrhage                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pigmentation                                 | 3 | 3 | 2 | 2 |   | 3 |   | 2 | 2 | 3 | 3 | 4 | 3 | 2 |   | 3 | 2 | 3 |   | 1 | 3 | 2 | 3 | 4 |   |   |   |
| Lymphoid Follicle, Atrophy                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoid Follicle, Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |
| Thymus                                       | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectopic Parathyroid Gland                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**INTEGUMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis                  |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Focal        |   |   |   |   |   | 1 | 1 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   | 3 |   | 3 | 2 |
| Duct, Ectasia             |   |   | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
| Skin                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked





| DAY ON TEST                                 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE                     |  | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 0 MG/KG                                     |  | 3 | 3 | 3 | 3 | 7 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
| ANIMAL ID                                   |  | 1 | 1 | 1 | 1 | 7 | 0 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|   |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|   |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |
|   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea                                     |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| <b>SPECIAL SENSES SYSTEM</b>                |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye   |  | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Hemorrhage                                  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Chronic                       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland                             |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Inflammation, Chronic                       |  |   |   |   |   |   | 1 |   |   |   | 1 |   | 1 | 1 |   |   | 1 |   | 1 |   |   |   |   |   |   |   |
| <b>URINARY SYSTEM</b>                       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Kidney                                      |  | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Casts Protein                               |  |   |   |   |   |   |   |   |   | 1 | 1 |   |   |   |   | 2 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |
| Cyst  |  |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infarct                                     |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Suppurative                   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mineralization                              |  |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   | 1 | 1 |   |   | 1 |   | 1 | 2 |   |   |   |
| Nephropathy                                 |  |   | 1 |   | 1 |   | 1 | 1 |   |   |   | 1 | 1 | 1 |   | 2 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |
| Renal Tubule, Accumulation, Hyaline Droplet |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |
| Transitional Epithelium, Hyperplasia        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ureter                                      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |
| Urinary Bladder                             |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |

females (cont...)

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                         | 0730        | 0733 | 0733 | 0733 | 0733 | 0754 | 0765 | 0766 | 0777 | 0776 | 0777 | 0777 | 0777 | 0759 | 0766 | 0766 | 0749 | 0744 | 0744 | 0745 | 0775 | 0777 | 0777 | 0777 |          |
| 0 MG/KG                 | 0022        | 0022 | 0022 | 0022 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0044 | 0044 | 0044 | 0044 | 0044 | 0045 | 0076 | 0077 | 0077 | 0077 | 0065     |
| ANIMAL ID               | 67          | 78   | 89   | 00   | 01   | 02   | 03   | 04   | 05   | 06   | 07   | 08   | 09   | 00   | 01   | 02   | 03   | 04   | 05   | 06   | 07   | 08   | 09   | 00   |          |

**ALIMENTARY SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Esophagus                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |
| Diverticulum                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |     |
| Intestine Large, Cecum                | + | + | + | + | + | A | + | + | + | + | + | + | + | M | + | A | A | A | + | A | + | + | + | + | A  | 41 |     |
| Intestine Large, Colon                | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | A | A | A | + | A | + | + | + | + | A  | 41 |     |
| Intestine Large, Rectum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | A | + | + | + | + | +  | 46 |     |
| Intestine Small, Duodenum             | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | A | A | + | A | + | + | + | + | +  | 44 |     |
| Intestine Small, Ileum                | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | A | A | A | + | A | + | + | + | + | A  | 41 |     |
| Intestine Small, Jejunum              | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | A | A | A | + | A | + | + | + | + | A  | 41 |     |
| Liver                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |     |
| Angiectasis                           |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 2.0 |
| Basophilic Focus                      | X | X | X | X | X |   |   | X | X | X | X | X |   |   | X | X | X | X | X | X | X | X | X | X | X  | 46 |     |
| Clear Cell Focus                      |   |   | X | X | X |   |   |   |   | X | X |   |   |   |   |   | X |   |   |   | X |   | X | X |    | 17 |     |
| Eosinophilic Focus                    |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   | X |   |    | 8  |     |
| Hematopoietic Cell Proliferation      |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 1.0 |
| Hepatodiaphragmatic Nodule            |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   | X |   |   | X |   |   |   |    | 5  |     |
| Infiltration Cellular, Mixed Cell     | 1 |   | 1 | 1 | 1 |   |   | 1 |   | 1 | 1 | 1 |   | 2 | 1 |   |   |   | 1 |   | 1 |   | 1 |   |    | 30 | 1.1 |
| Mixed Cell Focus                      |   |   |   |   |   |   |   |   |   |   |   | X | X | X |   |   |   |   |   |   |   |   |   |   |    | 10 |     |
| Necrosis, Focal                       |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |    | 1  | 1.0 |
| Bile Duct, Hyperplasia                |   |   |   |   |   | 1 |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   | 1 |   |    | 4  | 1.5 |
| Capsule, Fibrosis                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 3.0 |
| Hepatocyte, Vacuolization Cytoplasmic |   |   |   |   |   | 3 | 4 |   |   |   |   |   |   | 2 | 2 |   |   |   |   |   |   |   |   |   |    | 5  | 3.0 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>0 MG/KG | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                    | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>5<br>4<br>5      | 0<br>6<br>5<br>2      | 0<br>6<br>2<br>3      | 0<br>7<br>3<br>0      | 0<br>6<br>7<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>5<br>7<br>9      | 0<br>6<br>3<br>1      | 0<br>6<br>6<br>2      | 0<br>4<br>9<br>2      | 0<br>4<br>6<br>2      | 0<br>5<br>4<br>7      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>6<br>5<br>9      |                       |                       |
| ANIMAL ID                          | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>2<br>2<br>7 | 0<br>0<br>2<br>2<br>8 | 0<br>0<br>2<br>2<br>9 | 0<br>0<br>2<br>3<br>0 | 0<br>0<br>2<br>3<br>1 | 0<br>0<br>2<br>3<br>2 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>3<br>4 | 0<br>0<br>2<br>3<br>5 | 0<br>0<br>2<br>3<br>6 | 0<br>0<br>2<br>3<br>7 | 0<br>0<br>2<br>3<br>8 | 0<br>0<br>2<br>3<br>9 | 0<br>0<br>2<br>4<br>0 | 0<br>0<br>2<br>4<br>1 | 0<br>0<br>2<br>4<br>2 | 0<br>0<br>2<br>4<br>3 | 0<br>0<br>2<br>4<br>4 | 0<br>0<br>2<br>4<br>5 | 0<br>0<br>2<br>4<br>6 | 0<br>0<br>2<br>4<br>7 | 0<br>0<br>2<br>4<br>8 | 0<br>0<br>2<br>4<br>9 | 0<br>0<br>2<br>5<br>0 |

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Mesentery<br>Fat, Necrosis    |   |   | + | + |   |   | + |   |   |   |   |   |   | + | + | + |   |   | + |   |   |   |   |   |   |   | 13<br>13 2.2 |
| Pancreas<br>Atrophy           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 49<br>25 1.4 |
| Cyst                          | X | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X | X |   |   | X | X |   |   | 14<br>2 1.5  |
| Acinus, Hyperplasia, Focal    |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2            |
| Salivary Glands<br>Atrophy    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>9 1.1  |
| Stomach, Forestomach<br>Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>2 2.0  |
| Ulcer                         |   |   |   |   |   | 2 |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 1 4.0        |
| Epithelium, Hyperplasia       |   |   |   |   | 4 |   |   |   |   |   |   |   |   | 1 | 3 | 1 |   |   | 1 |   |   |   |   |   | 1 |   | 7 1.4        |
| Stomach, Glandular<br>Edema   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 48<br>1 3.0  |
| Erosion                       |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0        |
| Ulcer                         |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 4.0        |
| Tongue<br>Hyperplasia         |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1<br>1 2.0   |

**CARDIOVASCULAR SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---|
| Blood Vessel            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | +            | 1 |
| Heart<br>Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>40 1.1 |   |
|                         | 1 |   | 1 |   | 1 | 1 |   | 1 | 1 |   | 1 | 2 | 1 | 1 |   | 1 | 1 | 1 | 1 |   | 1 |   | 1 | 1 | 1 | 2 |   |              |   |

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TDMS No. 99037 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|             | 0730                    | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 |          |
| 0 MG/KG     | 0026                    | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050     |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |       |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|-------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | +  | 47     |       |
| Accessory Adrenal Cortical Nodule |   |   | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 7 1.4  |       |
| Degeneration, Fatty               | 3 |   | 2 |   |   | 2 | 3 |   |   | 1 | 1 | 3 | 3 |   |   | 3 |   |   |   |   | 1 | 1 |   |   |   |   |    | 23 1.9 |       |
| Hematopoietic Cell Proliferation  |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 1.0  |       |
| Hyperplasia, Focal                | 2 | 1 | 1 | 1 | 1 |   |   |   |   | 1 |   | 2 | 4 | 1 |   |   |   |   |   |   | 2 |   |   | 1 | 1 |   |    | 22 1.5 |       |
| Hypertrophy, Focal                |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |    | 7 1.7  |       |
| Necrosis                          |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |    | 2 2.5  |       |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 48 |        |       |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 |   |   |   |   |   |   |   |   | 1 |   |    | 7 1.1  |       |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | +  | 49     |       |
| Hyperplasia                       | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 1.0  |       |
| Parathyroid Gland                 | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | M |   | 47 |        |       |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |       |
| Pigmentation                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |    | 5 1.6  |       |
| Pars Distalis, Angiectasis        |   |   | 1 |   |   | 3 | 2 |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |    | 9 2.2  |       |
| Pars Distalis, Cyst               |   |   |   |   |   | X |   |   |   | X | X | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |    | 18     |       |
| Pars Distalis, Hyperplasia, Focal |   |   | 2 |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 5 1.6  |       |
| Pars Intermedia, Angiectasis      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 3.5  |       |
| Pars Intermedia, Cyst             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |    | 1      |       |
| Pars Intermedia, Hyperplasia      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 1.0  |       |
| Rathke's Cleft, Dilatation        |   |   |   |   |   | 1 | 1 |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 | 2  | 7 1.3  |       |
| Thyroid Gland                     | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | A | A | A | + | M | + | + | + | + | A  | 42     |       |
| Degeneration, Cystic              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |        | 1 1.0 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

| DAY ON TEST | FISCHER 344 RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |
|-------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|             | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
| 7           | 7                       | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 6 | 4 | 4 | 4 | 5 | 7 | 7 | 7 | 7 | 6 |          |
| 3           | 3                       | 3 | 3 | 3 | 4 | 5 | 2 | 3 | 7 | 3 | 3 | 3 | 7 | 3 | 6 | 9 | 6 | 5 | 4 | 3 | 3 | 3 | 3 | 5 |          |
| 0           | 0                       | 0 | 0 | 0 | 5 | 2 | 3 | 0 | 7 | 0 | 0 | 0 | 9 | 1 | 2 | 9 | 2 | 2 | 7 | 1 | 1 | 1 | 1 | 9 |          |
| ANIMAL ID   | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
|             | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
|             | 2                       | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |          |
|             | 2                       | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |          |
| 6           | 7                       | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |          |

Ultimobranchial Cyst  
C-cell, Hyperplasia

1

2 1.0  
1 1.0

**GENERAL BODY SYSTEM**

Tissue NOS  
Fat, Mediastinum, Necrosis

+  
2

1  
1 2.0

**GENITAL SYSTEM**

Clitoral Gland  
Cyst  
Hyperplasia

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
|   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   | 2     |
|   |   |   |   |   |   |   |   |   | 2 |   |   |   | 2 |   |   |   |   |   |   | 3 |   |   | 2 | 9 2.2 |

Ovary  
Cyst

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 3  |

Uterus  
Cyst  
Hyperplasia, Cystic

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| 2 | 1 |   | 2 | 1 |   |   |   | 2 | 1 |   | 4 | 2 |   |   |   |   |   |   | 4 |   |   | 3 |   | 1      |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 22 2.2 |

Vagina

|  |  |  |  |  |  |  |  |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
|  |  |  |  |  |  |  |  | + |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  | 2 |
|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

**HEMATOPOIETIC SYSTEM**

Bone Marrow  
Hyperplasia  
Infiltration Cellular, Histiocyte

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 3.3 |
|   |   | 2 |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   | 4 |   | 1 4.0 |

Lymph Node

|  |  |  |  |  |  |  |  |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
|  |  |  |  |  |  |  |  | + |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  | 7 |
|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

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+ .. Tissue examined microscopically  
X .. Lesion present  
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A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>0 MG/KG              | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |     |     |     |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|-----|-----|
|   | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>5<br>4<br>5      | 0<br>6<br>5<br>2      | 0<br>6<br>2<br>3      | 0<br>7<br>3<br>0      | 0<br>6<br>7<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>5<br>7<br>9      | 0<br>6<br>6<br>1      | 0<br>6<br>6<br>2      | 0<br>4<br>9<br>2      | 0<br>4<br>6<br>2      | 0<br>4<br>5<br>7      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      |                       | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>6<br>5<br>9      |     |     |     |
| ANIMAL ID                                       | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>2<br>2<br>7 | 0<br>0<br>2<br>2<br>8 | 0<br>0<br>2<br>2<br>9 | 0<br>0<br>2<br>3<br>0 | 0<br>0<br>2<br>3<br>1 | 0<br>0<br>2<br>3<br>2 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>3<br>4 | 0<br>0<br>2<br>3<br>5 | 0<br>0<br>2<br>3<br>6 | 0<br>0<br>2<br>3<br>7 | 0<br>0<br>2<br>3<br>8 | 0<br>0<br>2<br>4<br>9 | 0<br>0<br>2<br>4<br>0 | 0<br>0<br>2<br>4<br>1 | 0<br>0<br>2<br>4<br>2 | 0<br>0<br>2<br>4<br>3 | 0<br>0<br>2<br>4<br>4 | 0<br>0<br>2<br>4<br>5 | 0<br>0<br>2<br>4<br>6 | 0<br>0<br>2<br>4<br>7 | 0<br>0<br>2<br>4<br>8 | 0<br>0<br>2<br>4<br>9 |     |     |     |
| Lymph Node, Mandibular<br>Hyperplasia, Lymphoid | +                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | 1   | 1   | 1.0 |
| Lymph Node, Mesenteric<br>Atrophy               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    | 1   | 2.0 |     |
| Ectasia   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 1                     | 3.0 |     |     |
| Hemorrhage                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 8                     | 1.6 |     |     |
| Hyperplasia, Lymphoid                           |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     | 2.5 |     |     |
| Spleen  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | 48                    | 1   | 3.0 |     |
| Fibrosis  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 21                    | 1.4 |     |     |
| Hematopoietic Cell Proliferation                | 2                     |                       |                       |                       |                       |                       |                       | 1                     | 1                     |                       |                       |                       |                       | 2                     |                       |                       |                       | 2                     |                       | 1                     |                       |                       |                       | 1                     | 3.0 |     |     |
| Hemorrhage                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 39                    | 2.7 |     |     |
| Pigmentation                                    | 2                     | 1                     | 4                     | 1                     | 2                     |                       |                       | 4                     | 3                     |                       | 3                     | 3                     | 2                     | 3                     | 3                     | 4                     | 4                     | 3                     | 3                     |                       | 2                     | 3                     | 2                     | 2                     | 1.5 |     |     |
| Lymphoid Follicle, Atrophy                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 2                     |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 1.3 |     |     |
| Lymphoid Follicle, Hyperplasia                  |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 1.3 |     |     |
| Thymus  | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    | 1                     | 2.0 |     |     |
| Ectopic Parathyroid Gland                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 1                     | 2.0 |     |     |
| <b>INTEGUMENTARY SYSTEM</b>                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     |     |     |
| Mammary Gland                                   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    | 1   | 4.0 |     |
| Fibrosis  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 19                    | 2.1 |     |     |
| Hyperplasia                                     | 2                     | 1                     | 1                     | 2                     |                       | 3                     |                       |                       | 3                     | 2                     |                       |                       | 3                     |                       | 2                     |                       | 2                     |                       | 2                     |                       |                       | 2                     | 3                     | 1.3                   |     |     |     |
| Hyperplasia, Focal                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 47                    | 2.1 |     |     |
| Duct, Ectasia                                   | 2                     | 1                     | 2                     | 2                     | 2                     | 2                     | 3                     | 2                     |                       | 2                     | 2                     | 4                     | 2                     | 2                     | 2                     | 2                     | 1                     |                       | 2                     | 3                     | 2                     | 2                     | 1                     | 2                     | 2.1 |     |     |
| Skin  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    | 2                     |     |     |     |
| Cyst Epithelial Inclusion                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       | 2                     |     |     |     |

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 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |   |   |   |  |
|-------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|--|
|             | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0 |   |   |  |
| 7           | 7                       | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 6 | 4 | 4 | 4 | 5 | 7 | 7        | 7 | 7 | 6 |  |
| 3           | 3                       | 3 | 3 | 3 | 4 | 5 | 2 | 3 | 3 | 7 | 3 | 3 | 7 | 3 | 6 | 9 | 6 | 5 | 4 | 3 | 3        | 3 | 3 | 5 |  |
| 0           | 0                       | 0 | 0 | 0 | 5 | 2 | 3 | 0 | 7 | 0 | 0 | 0 | 9 | 1 | 2 | 9 | 2 | 2 | 7 | 1 | 1        | 1 | 1 | 9 |  |
| ANIMAL ID   | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0 | 0 |  |
| 0           | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0 | 0 |  |
| 2           | 2                       | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2        | 2 | 2 | 2 |  |
| 2           | 2                       | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4        | 4 | 4 | 5 |  |
| 6           | 7                       | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7        | 8 | 9 | 0 |  |

|                               |   |     |
|-------------------------------|---|-----|
| Hyperkeratosis                | 1 | 4.0 |
| Inflammation, Chronic         | 1 | 1.0 |
| Epidermis, Hyperplasia        | 2 | 2.0 |
| Subcutaneous Tissue, Fibrosis | 1 | 3.0 |

**MUSCULOSKELETAL SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Femur, Osteopetrosis |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |

**NERVOUS SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Compression    |   |   |   |   |   |   |   | X | X |   |   |   | X | X | X | X |   |   |   |   |   |   |   |   | 9     |
| Mineralization |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |
| Pigmentation   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 1 1.0 |

**RESPIRATORY SYSTEM**

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |    |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|----|
| Lung                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50 |
| Infiltration Cellular, Histiocyte   | 1 | 1 | 1 | 1 | 1 |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 46 1.0 |    |
| Inflammation, Chronic               | 2 |   |   |   |   |   | 2 |   | 1 |   |   |   |   | 1 | 2 |   |   |   |   |   |   |   |   | 10 1.5 |    |
| Alveolar Epithelium, Hyperplasia    | 1 |   | 1 | 2 |   |   |   |   |   |   | 1 | 1 |   |   |   |   |   |   |   |   | 1 |   |   | 23 1.3 |    |
| Nose                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |    |
| Foreign Body                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   | 7 1.3  |    |
| Inflammation, Chronic               |   |   |   |   |   |   |   | 1 | 2 |   |   |   | 1 |   | 2 |   |   |   |   |   | 2 |   |   | 11 1.5 |    |
| Thrombosis                          |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1      |    |
| Goblet Cell, Hyperplasia            |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   | 1 1.0  |    |
| Respiratory Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 |   |   |   |   |   |   |   |   |   |   | 5 1.0  |    |

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 + .. Tissue examined microscopically  
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 I .. Insufficient tissue  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>0 MG/KG          | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|
|   | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>5<br>4<br>5      | 0<br>6<br>5<br>2      | 0<br>6<br>2<br>3      | 0<br>7<br>3<br>0      | 0<br>6<br>7<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>5<br>7<br>9      | 0<br>6<br>3<br>1      | 0<br>6<br>6<br>2      | 0<br>4<br>9<br>2      | 0<br>4<br>6<br>2      | 0<br>4<br>5<br>7      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      |                       | 0<br>7<br>3<br>1      | 0<br>6<br>5<br>9      |                       |       |
| ANIMAL ID                                   | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>2<br>2<br>7 | 0<br>0<br>2<br>2<br>8 | 0<br>0<br>2<br>2<br>9 | 0<br>0<br>2<br>3<br>0 | 0<br>0<br>2<br>3<br>1 | 0<br>0<br>2<br>3<br>2 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>3<br>4 | 0<br>0<br>2<br>3<br>5 | 0<br>0<br>2<br>3<br>6 | 0<br>0<br>2<br>3<br>7 | 0<br>0<br>2<br>3<br>8 | 0<br>0<br>2<br>4<br>9 | 0<br>0<br>2<br>4<br>0 | 0<br>0<br>2<br>4<br>1 | 0<br>0<br>2<br>4<br>2 | 0<br>0<br>2<br>4<br>3 | 0<br>0<br>2<br>4<br>4 | 0<br>0<br>2<br>4<br>5 | 0<br>0<br>2<br>4<br>6 | 0<br>0<br>2<br>4<br>7 | 0<br>0<br>2<br>4<br>8 | 0<br>0<br>2<br>4<br>9 |       |
| Trachea                                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |       |
| <b>SPECIAL SENSES SYSTEM</b>                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |       |
| Eye   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | A                     | A                     | +                     | A                     | +                     | +                     | +                     | +                     | 44                    |       |
| Hemorrhage                                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 1 3.0 |
| Inflammation, Chronic                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 1 2.0 |
| Harderian Gland                             | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |       |
| Inflammation, Chronic                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       | 1                     |                       |                       |                       |                       |                       | 1                     |                       |                       | 9                     | 1.0   |
| <b>URINARY SYSTEM</b>                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |       |
| Kidney                                      | +                     | +                     | +                     | +                     | +                     | A                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | A                     | +                     | A                     | +                     | A                     | +                     | +                     | +                     | +                     | 44                    |       |
| Casts Protein                               |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |                       |                       |                       | 2                     | 2                     | 2                     |                       |                       |                       |                       |                       |                       |                       |                       | 14                    | 1.4   |
| Cyst  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |       |
| Infarct                                     |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 2.5   |
| Inflammation, Suppurative                   |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 2.0   |
| Mineralization                              | 1                     | 1                     | 1                     |                       | 1                     |                       |                       |                       |                       |                       |                       | 1                     | 1                     | 1                     |                       |                       |                       | 1                     |                       |                       | 1                     | 1                     |                       | 16                    | 1.1   |
| Nephropathy                                 | 1                     | 1                     | 1                     | 1                     |                       |                       | 2                     |                       | 3                     | 1                     | 1                     | 1                     | 2                     | 2                     | 2                     |                       |                       | 1                     |                       | 1                     | 1                     | 1                     | 1                     | 33                    | 1.2   |
| Renal Tubule, Accumulation, Hyaline Droplet |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 2.0   |
| Transitional Epithelium, Hyperplasia        |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 2.0   |
| Ureter                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |       |
| Urinary Bladder                             | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |       |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked





TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>12.5 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
|                                       | 0730        | 0733 | 0730 | 0741 | 0766 | 0766 | 0766 | 0717 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 0777 | 0777 | 0777 | 0777 |           |                      | 0755 |
|                                       | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    | 0    |
|                                       | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    | 0    |
|                                       | 2           | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2         | 2                    | 2    |
|                                       | 5           | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7         | 7                    | 7    |
|                                       | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1         | 2                    | 3    |

Tooth Degeneration +2

**CARDIOVASCULAR SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 1 |   |   | 2 |   |   |   |   |   | 1 | 1 |   | 1 |   | 1 | 1 |   | 1 | 2 | 1 | 1 |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                    | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule |   |   |   |   | 4 |   |   |   |   |   | 1 |   |   | 2 |   |   | 2 |   | 1 |   |   |   |
| Degeneration, Fatty               |   |   |   |   | 2 |   |   |   | 3 |   |   |   | 2 | 3 |   |   |   |   | 1 | 1 | 2 | 1 |
| Hematopoietic Cell Proliferation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Focal                |   |   | 2 |   |   |   |   |   | 3 |   |   | 1 |   |   |   | 2 | 1 |   | 3 | 1 |   |   |
| Hypertrophy, Focal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 1 |
| Necrosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   | 2 | 1 |   | 4 |   |   |   |   | 1 |   |   |   |   |
| Infiltration Cellular, Lymphoid   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic                | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland                   | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |
| Pars Distalis, Angiectasis        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   | 1 |
| Pars Distalis, Cyst               | X | X | X |   |   |   |   |   | X |   |   | X | X |   |   |   |   |   |   | X | X | X |
| Pars Distalis, Hyperplasia, Focal |   | 2 | 4 |   |   |   |   |   | 1 |   |   |   |   |   |   |   | 2 |   |   |   | 3 | 1 |

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 Lab: SRI

| FISCHER 344 RATS FEMALE<br>12.5 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                          | ANIMAL ID | females<br>(cont...) |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|-----------|----------------------|
|                                       | 0730        | 0733 | 0730 | 0742 | 0766 | 0766 | 0766 | 0711 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 0777 | 0777 | 0777 | 0777 | 0755 | 0777 | 0777 | 0700 |                          |           |                      |
|                                       | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 000000000000000000000000 |           |                      |
|                                       | 2           | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 000000000000000000000000 |           |                      |
|                                       | 5           | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7    | 7    | 7    | 000000000000000000000000 |           |                      |
|                                       | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 123456789012345678901234 |           |                      |

Pars Intermedia, Cyst  
 Rathke's Cleft, Dilatation

1

Thyroid Gland  
 Degeneration, Cystic  
 Ultimobranchial Cyst  
 C-cell, Hyperplasia  
 Follicular Cell, Hyperplasia, Focal

+ + + A A + A + + + + + + + + + + + + + + + + + +  
 1 1  
 4 4 1 2 2

**GENERAL BODY SYSTEM**

Tissue NOS

**GENITAL SYSTEM**

Clitoral Gland  
 Hyperplasia

+  
 2 1 1 2 1

Ovary  
 Cyst

+  
 X X

Uterus  
 Hyperplasia, Cystic  
 Fat, Necrosis

+  
 1 2 1 1 1 3 2  
 2

Vagina

+

**HEMATOPOIETIC SYSTEM**

Bone Marrow  
 Hyperplasia

+  
 4

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>12.5 MG/KG | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |                       |  |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|-----------------------|--|
|                                       | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>4<br>1<br>2 | 0<br>6<br>0<br>1 | 0<br>6<br>8<br>9 | 0<br>6<br>0<br>3 | 0<br>1<br>2<br>7 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>6<br>3<br>3 | 0<br>7<br>6<br>3 | 0<br>6<br>8<br>1 | 0<br>5<br>4<br>0 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>5<br>6<br>8 | 0<br>7<br>3<br>1 |           |                      | 0<br>7<br>3<br>1      |  |
|                                       | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0         | 0                    | 0<br>0<br>2<br>5<br>1 |  |

Infiltration Cellular, Histiocyte  
 Myelofibrosis

3

Lymph Node

+

+

Deep Cervical, Hyperplasia

Deep Cervical, Pigmentation

Mediastinal, Hemorrhage

Mediastinal, Hyperplasia, Lymphoid

4

4

Mediastinal, Pigmentation

2

Pancreatic, Hemorrhage

Pancreatic, Pigmentation

Lymph Node, Mandibular

Hyperplasia, Lymphoid

Pigmentation

M M

Lymph Node, Mesenteric

Atrophy

Hemorrhage

Hyperplasia, Lymphoid

+ +

1

2

2

4

Spleen

Ectopic Spleen, Multiple

Hematopoietic Cell Proliferation

Inflammation

Necrosis

Pigmentation

Lymphoid Follicle, Atrophy

Lymphoid Follicle, Hyperplasia

+ +

1

1

2

1

2

1

2

4

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4

1

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3

Thymus

+ I + + + + + A + + + + + + + M + + + + + + + + + +

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

X .. Lesion present

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| FISCHER 344 RATS FEMALE<br>12.5 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        | ANIMAL ID | females<br>(cont...) |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|-----------|----------------------|
|                                       | 0730        | 0733 | 0730 | 0741 | 0766 | 0766 | 0766 | 0711 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 0777 | 0777 | 0777 | 0777 | 0777 | 0755 | 0777 | 0777 |        |           |                      |
|                                       | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 000051 |           |                      |

Cyst X

**INTEGUMENTARY SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia            |   |   | 2 |   |   | 3 | 1 |   | 3 |   | 3 |   |   | 3 | 4 | 2 | 1 | 2 |   | 2 | 1 |   | 1 |
| Hyperplasia, Focal     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Duct, Ectasia          | 3 | 2 | 2 |   | 2 | 2 | 4 |   | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 |
| Skin                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperkeratosis         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ulcer                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epidermis, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Femur, Osteopetrosis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**NERVOUS SYSTEM**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression  |   |   |   |   |   | X | X |   | X |   | X |   |   | X |   |   | X |   |   |   | X |   |   |
| Pigmentation |   |   |   |   |   | 1 |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |

**RESPIRATORY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                       |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 |   | 1 | 1 |   | 1 |   | 1 | 1 | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 |
| Inflammation, Suppurative         |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked





TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>12.5 MG/KG       | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | ANIMAL ID | females<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|
|   | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>4<br>1<br>2 | 0<br>6<br>0<br>1 | 0<br>6<br>8<br>9 | 0<br>6<br>0<br>3 | 0<br>1<br>2<br>7 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>6<br>3<br>3 | 0<br>7<br>6<br>3 | 0<br>6<br>8<br>8 | 0<br>5<br>4<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>5<br>6<br>8 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 |   |           |                      |
| Cyst  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Infarct                                     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           | 4                    |
| Inflammation, Chronic                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           | 3                    |
| Mineralization                              | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  | 1                |                  |                  | 2                | 1                | 1                | 1                |                  |                  | 1 |           |                      |
| Nephropathy                                 | 1                | 1                |                  |                  |                  | 1                |                  |                  | 1                | 1                | 1                | 1                | 1                | 1                | 1                |                  | 1                | 1                | 1                | 1                | 1                | 1                |                  |   | 1         |                      |
| Renal Tubule, Accumulation, Hyaline Droplet | 2                |                  | 2                |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | 2         |                      |
| Transitional Epithelium, Hyperplasia        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           | 2                    |
| Urinary Bladder                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Transitional Epithelium, Hyperplasia        | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + | 2         |                      |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                         | 0730        | 0730 | 0730 | 0730 | 0742 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |          |
| 12.5 MG/KG              | 0076        | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 50       |

**ALIMENTARY SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |     |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Esophagus                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |     |     |
| Intestine Large, Cecum Hemorrhage     | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | +  | 44 | 1   | 1.0 |
| Intestine Large, Colon                | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | +  | 43 |     |     |
| Intestine Large, Rectum               | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | +  | 45 |     |     |
| Intestine Small, Duodenum             | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | +  | 45 |     |     |
| Intestine Small, Ileum                | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | +  | 42 |     |     |
| Intestine Small, Jejunum              | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | +  | 42 |     |     |
| Liver                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |     |     |
| Basophilic Focus                      | X | X |   | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X  | 46 |     |     |
| Clear Cell Focus                      | X | X |   | X |   |   | X |   | X |   | X |   |   |   |   |   |   | X | X |   |   | X |   | 21 |    |     |     |
| Eosinophilic Focus                    |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 2  |    |     |     |
| Hematopoietic Cell Proliferation      |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |    | 1  | 1.0 |     |
| Hepatodiaphragmatic Nodule            |   | X | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 8  |     |     |
| Infiltration Cellular, Mixed Cell     |   | 1 | 3 | 1 |   | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 4 |   | 1 |   | 1 | 1 |   | 1 | 1 | 2  | 30 | 1.3 |     |
| Mixed Cell Focus                      |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 4  |     |     |
| Necrosis, Focal                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 1.0 |     |
| Artery, Inflammation                  |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 3.0 |     |
| Bile Duct, Hyperplasia                |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |    | 2  | 1.5 |     |
| Hepatocyte, Vacuolization Cytoplasmic |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 4  | 2.0 |     |
| Kupffer Cell, Pigmentation            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 2.0 |     |

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 + .. Tissue examined microscopically  
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 I .. Insufficient tissue  
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 BLANK .. Not examined microscopically  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |   |   |   |   |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0 |   |   |   |
| 12.5 MG/KG              | 7           | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 5 | 7 | 4 | 6 | 7 | 7 | 6 | 7        | 7 | 7 | 5 | 7 |
| ANIMAL ID               | 3           | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 0 | 3 | 5 | 6 | 3 | 3 | 8 | 3        | 3 | 3 | 4 | 3 |
|                         | 0           | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | 1 | 8 | 1 | 2 | 0 | 1 | 1 | 9 | 1        | 1 | 1 | 0 | 1 |
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0 | 0 | 0 |
|                         | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2        | 2 | 2 | 3 | 3 |
|                         | 7           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9        | 9 | 9 | 0 | 0 |
|                         | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6        | 7 | 8 | 9 | 0 |

|                    |   |       |
|--------------------|---|-------|
| Tooth Degeneration | 1 | 1 2.0 |
|--------------------|---|-------|

**CARDIOVASCULAR SYSTEM**

|                |    |     |
|----------------|----|-----|
| Heart          | 50 |     |
| Cardiomyopathy | 30 | 1.1 |

**ENDOCRINE SYSTEM**

|                                   |    |     |
|-----------------------------------|----|-----|
| Adrenal Cortex                    | 49 |     |
| Accessory Adrenal Cortical Nodule | 12 | 1.6 |
| Degeneration, Fatty               | 18 | 1.8 |
| Hematopoietic Cell Proliferation  | 2  | 1.5 |
| Hyperplasia, Focal                | 14 | 1.7 |
| Hypertrophy, Focal                | 6  | 1.3 |
| Necrosis                          | 1  | 1.0 |
| Adrenal Medulla                   | 50 |     |
| Hyperplasia                       | 5  | 1.8 |
| Infiltration Cellular, Lymphoid   | 1  | 1.0 |
| Islets, Pancreatic                | 49 |     |
| Parathyroid Gland                 | 49 |     |
| Pituitary Gland                   | 49 |     |
| Pigmentation                      | 5  | 1.4 |
| Pars Distalis, Angiectasis        | 4  | 2.0 |
| Pars Distalis, Cyst               | 20 |     |
| Pars Distalis, Hyperplasia, Focal | 13 | 2.0 |

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>12.5 MG/KG   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |                       |   |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|-----------------------|---|
|   | 0730        | 0730 | 0730 | 0730 | 0742 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |          | 0777 | 0777 |                       |   |
| ANIMAL ID   | 0076        | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096     | 0097 | 0098 | 0099                  |   |
| Pars Intermedia, Cyst<br>Rathke's Cleft, Dilatation   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |          |      | X    |                       | 2<br>1 1.0                              |
| Thyroid Gland<br>Degeneration, Cystic<br>Ultimobranchial Cyst<br>C-cell, Hyperplasia<br>Follicular Cell, Hyperplasia, Focal | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +                     | 46<br>2 1.0<br>1 1.0<br>11 2.4<br>1 2.0 |
| <b>GENERAL BODY SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                       |   |
| Tissue NOS  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | 1                     |   |
| <b>GENITAL SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                       |   |
| Clitoral Gland<br>Hyperplasia   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | 50<br>7 1.9           |   |
| Ovary<br>Cyst   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | 50<br>6               |   |
| Uterus<br>Hyperplasia, Cystic<br>Fat, Necrosis  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | 50<br>17 1.8<br>1 2.0 |   |
| Vagina  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | 2                     |   |
| <b>HEMATOPOIETIC SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                       |   |
| Bone Marrow<br>Hyperplasia  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | 50<br>6 3.5           |   |

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
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 Lab: SRI

| FISCHER 344 RATS FEMALE<br>12.5 MG/KG | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |   |   |     |     |     |
|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|-----|-----|-----|
|                                       | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>4<br>2<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>5<br>0<br>8      | 0<br>7<br>3<br>1      | 0<br>5<br>0<br>8      | 0<br>7<br>3<br>1      | 0<br>4<br>5<br>2      | 0<br>6<br>6<br>0      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>6<br>8<br>9      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>5<br>4<br>0      | 0<br>7<br>3<br>1      |                       |                       |   |   |     |     |     |
| ANIMAL ID                             | 0<br>0<br>2<br>7<br>6 | 0<br>0<br>2<br>7<br>7 | 0<br>0<br>2<br>7<br>8 | 0<br>0<br>2<br>7<br>9 | 0<br>0<br>2<br>8<br>0 | 0<br>0<br>2<br>8<br>1 | 0<br>0<br>2<br>8<br>2 | 0<br>0<br>2<br>8<br>3 | 0<br>0<br>2<br>8<br>4 | 0<br>0<br>2<br>8<br>5 | 0<br>0<br>2<br>8<br>6 | 0<br>0<br>2<br>8<br>7 | 0<br>0<br>2<br>8<br>8 | 0<br>0<br>2<br>8<br>9 | 0<br>0<br>2<br>9<br>0 | 0<br>0<br>2<br>9<br>1 | 0<br>0<br>2<br>9<br>2 | 0<br>0<br>2<br>9<br>3 | 0<br>0<br>2<br>9<br>4 | 0<br>0<br>2<br>9<br>5 | 0<br>0<br>2<br>9<br>6 | 0<br>0<br>2<br>9<br>7 | 0<br>0<br>2<br>9<br>8 | 0<br>0<br>2<br>9<br>9 | 0<br>0<br>2<br>9<br>0 |   |   |     |     |     |
| Infiltration Cellular, Histiocyte     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 | 1 | 1.0 |     |     |
| Myelofibrosis                         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 1 | 1   | 3.0 |     |
| Lymph Node                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 8   |     |     |
| Deep Cervical, Hyperplasia            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 3   | 1   | 3.0 |
| Deep Cervical, Pigmentation           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 3   | 1   | 3.0 |
| Mediastinal, Hemorrhage               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 3   | 2   | 3.0 |
| Mediastinal, Hyperplasia, Lymphoid    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2   | 6   | 2.7 |
| Mediastinal, Pigmentation             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2   | 5   | 2.2 |
| Pancreatic, Hemorrhage                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2   | 1   | 2.0 |
| Pancreatic, Pigmentation              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 3   | 1   | 3.0 |
| Lymph Node, Mandibular                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 4   |     |     |
| Hyperplasia, Lymphoid                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2   | 4   | 1.5 |
| Pigmentation                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2   | 1   | 2.0 |
| Lymph Node, Mesenteric                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 50  |     |     |
| Atrophy                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 3   | 1   | 3.0 |
| Hemorrhage                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2   | 9   | 1.7 |
| Hyperplasia, Lymphoid                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 1   | 5   | 1.6 |
| Spleen                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 49  |     |     |
| Ectopic Spleen, Multiple              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | X   | 1   |     |
| Hematopoietic Cell Proliferation      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 1   | 31  | 1.6 |
| Inflammation                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 1   | 1   | 3.0 |
| Necrosis                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 1   | 1   | 4.0 |
| Pigmentation                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2   | 40  | 2.6 |
| Lymphoid Follicle, Atrophy            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2   | 3   | 1.7 |
| Lymphoid Follicle, Hyperplasia        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2   | 3   | 1.0 |
| Thymus                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 45  |     |     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>12.5 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |      |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|
|                                       | 0730        | 0730 | 0730 | 0730 | 0742 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0755 | 0777 | 0755 | 0777 | 0744 | 0766 | 0777 | 0777 | 0777 |          | 0755 | 0777 |      |
| ANIMAL ID                             | 0076        | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096     | 0097 | 0098 | 0099 |
|                                       | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0        | 0    | 0    | 0    |
|                                       | 7           | 7    | 7    | 7    | 4    | 7    | 7    | 7    | 7    | 7    | 7    | 5    | 7    | 5    | 7    | 4    | 6    | 7    | 7    | 6    | 7        | 7    | 5    | 7    |
|                                       | 3           | 3    | 3    | 3    | 2    | 3    | 3    | 3    | 3    | 3    | 3    | 0    | 3    | 0    | 3    | 5    | 6    | 3    | 3    | 8    | 3        | 3    | 3    | 4    |
|                                       | 0           | 0    | 0    | 0    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 8    | 1    | 8    | 1    | 2    | 0    | 1    | 1    | 9    | 1        | 1    | 1    | 3    |

Cyst X 2

**INTEGUMENTARY SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |        |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Mammary Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |        |
| Hyperplasia            |   |   |   |   |   |   |   |   | 2 |   | 2 |   |   | 4 |   | 3 |   | 3 |   | 2 | 2 | 3 |   | 21 2.3 |        |
| Hyperplasia, Focal     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   | 1 1.0  |        |
| Duct, Ectasia          | 3 | 3 | 2 | 2 |   | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 4 |   | 4 | 2 |   | 3      | 45 2.4 |
| Skin                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |        |
| Hyperkeratosis         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |        |
| Ulcer                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 4.0  |        |
| Epidermis, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |        |

**MUSCULOSKELETAL SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Femur, Osteopetrosis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |    | 1 2.0 |

**NERVOUS SYSTEM**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Compression  |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   | 10    |
| Pigmentation |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 1.0 |

**RESPIRATORY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lung                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |
| Infiltration Cellular, Histiocyte | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 43 1.0 |
| Inflammation, Suppurative         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked







TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ANIMAL ID | females<br>(cont...) |       |       |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|-------|-------|
|                         | 05779       | 07292 | 07401 | 06316 | 07627 | 04485 | 02277 | 07631 | 06761 | 02675 | 07638 | 06775 | 02657 | 05713 | 07739 | 05800 | 01729 | 06670 | 05409 | 07716 |           |                      | 07713 | 05713 |
| 25 MG/KG                | 00000       | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000     | 00000                | 00000 |       |
|                         | 3301        | 3302  | 3303  | 3304  | 3305  | 3306  | 3307  | 3308  | 3309  | 3310  | 3311  | 3312  | 3313  | 3314  | 3315  | 3316  | 3317  | 3318  | 3319  | 3320  | 3321      | 3322                 | 00000 | 00000 |

**ALIMENTARY SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |
| Intestine Large, Cecum             | + | + | + | + | + | A | + | + | + | A | + | A | A | A | + | + | A | + | + | + | + | A | + | + | + |   |
| Intestine Large, Colon             | + | + | + | + | + | A | A | + | + | A | + | A | A | A | + | A | A | + | + | + | + | A | + | + | + |   |
| Intestine Large, Rectum            | + | + | + | + | + | A | + | + | + | A | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + |   |
| Intestine Small, Duodenum Necrosis | + | + | + | + | + | A | + | + | + | A | + | A | + | A | + | + | A | A | + | + | + | + | + | + | + |   |
| Intestine Small, Ileum             | + | + | + | + | A | A | A | + | + | A | + | A | A | A | + | + | A | + | M | + | + | A | + | + | + |   |
| Intestine Small, Jejunum           | + | + | + | + | A | A | A | + | + | A | + | A | A | A | + | A | A | + | + | + | + | + | + | + | + |   |
| Liver                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |   |
| Angiectasis                        | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Basophilic Focus                   | X | X | X | X | X | X | X |   | X | X | X | X |   | X | X | X |   |   | X | X | X |   |   | X | X |   |
| Clear Cell Focus                   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |
| Eosinophilic Focus                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Hematopoietic Cell Proliferation   | 1 |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |
| Hepatodiaphragmatic Nodule         |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X | X |
| Infiltration Cellular, Mixed Cell  | 1 | 1 |   | 1 | 1 |   |   | 1 |   |   | 2 | 1 |   |   |   | 1 | 1 |   | 1 | 1 |   |   |   |   | 1 | 1 |
| Inflammation, Chronic              |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mixed Cell Focus                   |   |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   | X |   |
| Necrosis, Focal                    | 1 |   |   | 2 |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |
| Artery, Inflammation               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Hyperplasia             |   |   | 1 | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 2 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>25 MG/KG    | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
|  | 0<br>5<br>7<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>0<br>2 | 0<br>4<br>3<br>1 | 0<br>6<br>1<br>6 | 0<br>7<br>2<br>7 | 0<br>4<br>8<br>5 | 0<br>2<br>5<br>7 | 0<br>7<br>3<br>1 | 0<br>6<br>6<br>1 | 0<br>7<br>3<br>1 | 0<br>6<br>8<br>5 | 0<br>2<br>7<br>6 | 0<br>6<br>6<br>3 | 0<br>5<br>1<br>3 | 0<br>7<br>2<br>9 | 0<br>5<br>8<br>0 | 0<br>1<br>2<br>3 | 0<br>7<br>0<br>9 | 0<br>6<br>0<br>7 | 0<br>5<br>0<br>0 | 0<br>4<br>1<br>9 | 0<br>7<br>2<br>6 | 0<br>7<br>1<br>9 | 0<br>5<br>2<br>3 |           |                      |
| Centrilobular, Necrosis                | 4                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 3                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Hepatocyte, Vacuolization              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 3         |                      |
| Cytoplasmic Kupffer Cell, Pigmentation |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1         |                      |
| Mesentery                              | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | +         |                      |
| Accessory Spleen                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | +         |                      |
| Fat, Necrosis                          | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 3                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2 2       |                      |
| Pancreas                               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         |                      |
| Atrophy                                |                  | 1                | 1                | 2                |                  | 2                | 1                | 1                | 1                |                  | 1                |                  | 1                |                  |                  |                  |                  |                  | 1                | 1                |                  |                  |                  |                  |                  |           |                      |
| Cyst                                   |                  |                  |                  |                  |                  |                  | X                |                  |                  | X                |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |           |                      |
| Acinus, Hyperplasia, Focal             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1         |                      |
| Salivary Glands                        | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         |                      |
| Atrophy                                |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Stomach, Forestomach                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         |                      |
| Inflammation, Chronic Active           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Epithelium, Hyperplasia                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Epithelium, Hyperplasia, Atypical      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Stomach, Glandular                     | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         |                      |
| Erosion                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Ulcer                                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2         |                      |

**CARDIOVASCULAR SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy |   | 1 | 2 |   | 1 | 1 |   | 1 | 1 | 1 | 1 | 2 |   | 2 | 1 |   | 1 |   | 2 | 1 | 1 | 1 |   | + | + | 1 |

**ENDOCRINE SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>25 MG/KG | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID   | females<br>(cont...) |                      |                      |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|----------------------|----------------------|----------------------|
|                                     | 0<br>5<br>7<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>0<br>2 | 0<br>4<br>3<br>1 | 0<br>6<br>1<br>6 | 0<br>7<br>2<br>7 | 0<br>4<br>8<br>5 | 0<br>2<br>5<br>7 | 0<br>7<br>3<br>1 | 0<br>6<br>6<br>1 | 0<br>7<br>3<br>1 | 0<br>6<br>8<br>1 | 0<br>2<br>7<br>5 | 0<br>6<br>6<br>3 | 0<br>5<br>1<br>3 | 0<br>7<br>2<br>9 | 0<br>5<br>0<br>0 | 0<br>1<br>8<br>3 | 0<br>7<br>2<br>9 | 0<br>6<br>0<br>0 | 0<br>5<br>4<br>9 | 0<br>4<br>1<br>6 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>5<br>1<br>3 |   |                      |                      |                      |
| Adrenal Cortex                      | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | A                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 | females<br>(cont...) |                      |                      |
| Accessory Adrenal Cortical Nodule   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Degeneration, Fatty                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Hematopoietic Cell Proliferation    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Hemorrhage                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Hyperplasia, Focal                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Hypertrophy, Focal                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Necrosis                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Adrenal Medulla                     | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      | females<br>(cont...) |                      |
| Hyperplasia                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Islets, Pancreatic                  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Hyperplasia                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Parathyroid Gland                   | M                | +                | +                | +                | +                | +                | M                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Pituitary Gland                     | +                | +                | +                | +                | +                | M                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Pigmentation                        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Pars Distalis, Angiectasis          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Pars Distalis, Atrophy              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Pars Distalis, Cyst                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Pars Distalis, Dilatation           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Pars Distalis, Hyperplasia, Focal   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Pars Intermedia, Cyst               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Rathke's Cleft, Dilatation          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Thyroid Gland                       | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | A                | +                | A                | +                | +                | A                | +                | +                | +                | +                | +                | +                | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      | females<br>(cont...) |
| Degeneration, Cystic                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |
| Ultimobranchial Cyst                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 0<br>0<br>3<br>0<br>1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>0<br>1<br>2<br>3<br>4<br>5 |                      |                      |                      |

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 I .. Insufficient tissue  
 M .. Missing tissue  
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 alpha/beta Thujone mixture  
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 Lab: SRI

| FISCHER 344 RATS FEMALE<br>25 MG/KG | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |                  |                       |                  |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|-----------------------|------------------|
|                                     | 0<br>5<br>7<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>0<br>2 | 0<br>4<br>3<br>1 | 0<br>6<br>1<br>6 | 0<br>7<br>2<br>7 | 0<br>4<br>8<br>5 | 0<br>2<br>5<br>7 | 0<br>7<br>3<br>1 | 0<br>6<br>6<br>1 | 0<br>7<br>3<br>1 | 0<br>6<br>8<br>5 | 0<br>2<br>7<br>6 | 0<br>6<br>1<br>3 | 0<br>5<br>2<br>9 | 0<br>7<br>0<br>0 | 0<br>1<br>8<br>3 | 0<br>2<br>0<br>9 | 0<br>6<br>0<br>7 | 0<br>5<br>0<br>0 |           |                      | 0<br>4<br>1<br>6 | 0<br>7<br>2<br>9      | 0<br>7<br>1<br>3 |
|                                     | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0         | 0                    | 0                | 0<br>0<br>3<br>0<br>1 |                  |

C-cell, Hyperplasia  
 Follicular Cell, Hyperplasia, Focal

1

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia           |   |   |   |   |   | 3 |   |   | 3 |   |   | 3 |   |   |   |   |   |   |   |   |   | 2 | 1 |
| Inflammation, Chronic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ovary                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                  |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |
| Bilateral, Cyst       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Uterus                | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Cystic   |   | 1 |   |   | 1 |   |   |   |   | 1 | 3 |   |   |   |   | 3 |   |   | 3 | 2 | 2 | 2 | 2 |
| Cervix, Cyst          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Vagina                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**HEMATOPOIETIC SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                       | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 | 4 |   |   |   |
| Infiltration Cellular, Histiocyte |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node                        | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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| FISCHER 344 RATS FEMALE<br>25 MG/KG | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |      |      |  |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|--|
|                                     | 0579        | 0729 | 0772 | 0431 | 0616 | 0727 | 0448 | 0257 | 0731 | 0671 | 0761 | 0278 | 0656 | 0713 | 0529 | 0700 | 0183 | 0279 | 0607 | 0449 |           |                      | 0716 | 0729 | 0513 |  |
| Duct, Ectasia                       | 2           | 2    |      |      | 3    | 1    | 2    |      |      | 2    | 2    | 1    | 3    |      | 2    | 2    | 1    |      | 2    | 2    | 2         |                      | 2    | 3    | 4    |  |
| Skin                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    |  |
| Cyst Epithelial Inclusion           |             | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |
| Hyperkeratosis                      |             | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |
| <b>MUSCULOSKELETAL SYSTEM</b>       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |
| Bone                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    |  |
| Skeletal Muscle                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |
| <b>NERVOUS SYSTEM</b>               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |
| Brain                               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    |  |
| Compression                         |             |      |      |      | X    |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |           |                      | X    |      | X    |  |
| Gliosis                             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |
| Mineralization                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      | 2    |      |      |  |
| Necrosis                            |             |      |      | 1    |      | 4    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |
| Pigmentation                        |             |      |      |      |      |      |      |      | 1    |      |      | 1    |      |      |      |      |      |      |      | 1    |           | 2                    |      |      |      |  |
| <b>RESPIRATORY SYSTEM</b>           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |
| Lung                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    |  |
| Infiltration Cellular, Histiocyte   | 1           | 1    | 1    | 1    | 1    | 1    |      |      | 1    | 1    | 1    | 1    | 1    | 1    |      | 1    | 1    |      |      | 1    | 1         |                      |      | 1    | 1    |  |
| Inflammation, Chronic               |             | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |
| Metaplasia, Osseous                 |             |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |
| Alveolar Epithelium, Hyperplasia    | 1           |      | 1    |      | 1    |      |      |      |      | 1    |      |      |      |      | 1    |      |      |      |      | 1    |           |                      |      | 1    |      |  |
| Nose                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    |  |
| Foreign Body                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>25 MG/KG | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ANIMAL ID | females<br>(cont...) |       |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|-------|
|                                     | 05779       | 07772 | 00770 | 03773 | 01776 | 00777 | 04774 | 06778 | 02775 | 07771 | 06776 | 07777 | 06772 | 00779 | 00774 | 05775 | 07770 | 01773 | 07776 | 05771 | 04777 | 07772 | 07773 | 00778 |           |                      | 00775 |
|                                     | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 00000                |       |
|                                     | 3           | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3         | 00000                |       |
|                                     | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 2     | 2     | 2     | 2     | 2         | 00000                |       |
|                                     | 1           | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5         | 11111                |       |

Inflammation, Chronic  
 Respiratory Epithelium, Hyperplasia

1

Trachea +

**SPECIAL SENSES SYSTEM**

Eye + + + + + A + + + A + A A A + + A + + + + + + + + + + + + + + +  
 Cataract  
 Edema  
 Bilateral, Cataract  
 Retina, Degeneration

Harderian Gland + M +  
 Hemorrhage 2 2 2  
 Hyperplasia  
 Inflammation, Chronic 1 1 1

**URINARY SYSTEM**

Kidney + + + + A A + + + A + A + A + + A + + + + + + + + + + + + + + +  
 Casts Protein 1 1 2 1  
 Infarct  
 Inflammation, Chronic 2 1 1 2 1  
 Mineralization 1  
 Nephropathy 1  
 Renal Tubule, Accumulation, Hyaline Droplet 2  
 Renal Tubule, Necrosis 1

Urinary Bladder +

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>25 MG/KG | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
|                                     | 0390        | 0731  | 0731  | 0731  | 0652  | 0771  | 0771  | 0771  | 0331  | 0547  | 0547  | 0661  | 0661  | 0173  | 0173  | 0223  | 0223  | 0338  | 0449  | 0449  |          | 0771  | 0771  | 0664  | 0473  | 0648  |
| ANIMAL ID                           | 00326       | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346    | 00347 | 00348 | 00349 | 00350 | 00351 |
|                                     | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0     | 0     | 0     | 0     |
|                                     | 3           | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3        | 3     | 3     | 3     | 3     | 3     |
|                                     | 2           | 2     | 2     | 2     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 4     | 4     | 4     | 4     | 4     | 4     | 4        | 4     | 4     | 4     | 4     | 5     |
|                                     | 6           | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5     | 6        | 7     | 8     | 9     | 0     |       |

**ALIMENTARY SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |    |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|----|
| Esophagus                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |    |
| Intestine Large, Cecum                | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | A | + | + | + | 39     |    |
| Intestine Large, Colon                | A | + | + | + | + | + | + | A | A | + | + | + | A | + | + | + | A | + | + | + | + | A | A | + | + | + | 33     |    |
| Intestine Large, Rectum               | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | A | + | + | + | 41     |    |
| Intestine Small, Duodenum<br>Necrosis | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | 40     |    |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0  |    |
| Intestine Small, Ileum                | A | + | + | + | + | + | + | A | A | + | A | + | + | + | + | + | A | + | + | + | + | A | A | + | + | + | 33     |    |
| Intestine Small, Jejunum              | A | + | + | + | + | + | + | A | A | + | A | + | + | + | + | + | A | + | + | + | + | A | A | + | + | + | 33     |    |
| Liver                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |    |
| Angiectasis                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |    |
| Basophilic Focus                      | X | X | X | X |   | X | X | X | X | X | X |   | X | X | X | X |   | X | X |   | X | X | X | X |   |   | 40     |    |
| Clear Cell Focus                      |   | X | X | X |   | X | X |   | X |   |   |   | X |   | X |   |   |   |   |   |   | X |   |   |   |   |        | 11 |
| Eosinophilic Focus                    |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 2  |
| Hematopoietic Cell Proliferation      |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 1.0  |    |
| Hepatodiaphragmatic Nodule            |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | 6      |    |
| Infiltration Cellular, Mixed Cell     | 1 | 1 | 1 | 1 |   | 1 |   | 1 | 1 | 1 |   |   |   | 1 | 1 | 1 | 1 | 1 |   | 1 |   | 2 | 2 |   |   |   | 32 1.1 |    |
| Inflammation, Chronic                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0  |    |
| Mixed Cell Focus                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4      |    |
| Necrosis, Focal                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   | 5 1.4  |    |
| Artery, Inflammation                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   | 1 3.0  |    |
| Bile Duct, Hyperplasia                |   |   |   |   |   | 2 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   | 7 2.0  |    |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
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 Lab: SRI

| FISCHER 344 RATS FEMALE<br>25 MG/KG | DAY ON TEST                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |
|-------------------------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                     | 0<br>3<br>9<br>0                                | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>6<br>5<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>3<br>5<br>1      | 0<br>5<br>4<br>7      | 0<br>7<br>3<br>1      | 0<br>6<br>5<br>2      | 0<br>6<br>1<br>7      | 0<br>7<br>3<br>1      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>3<br>3<br>8      | 0<br>4<br>9<br>4      | 0<br>7<br>2<br>1      | 0<br>7<br>3<br>1      |                       | 0<br>6<br>9<br>9      | 0<br>4<br>8<br>8      | 0<br>7<br>1<br>4      |
| ANIMAL ID                           | 0<br>0<br>3<br>2<br>6                           | 0<br>0<br>3<br>2<br>7 | 0<br>0<br>3<br>2<br>8 | 0<br>0<br>3<br>2<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 | 0<br>0<br>3<br>3<br>7 | 0<br>0<br>3<br>3<br>8 | 0<br>0<br>3<br>3<br>9 | 0<br>0<br>3<br>4<br>0 | 0<br>0<br>3<br>4<br>1 | 0<br>0<br>3<br>4<br>2 | 0<br>0<br>3<br>4<br>3 | 0<br>0<br>3<br>4<br>4 | 0<br>0<br>3<br>4<br>5 | 0<br>0<br>3<br>4<br>6 | 0<br>0<br>3<br>4<br>7 | 0<br>0<br>3<br>4<br>8 | 0<br>0<br>3<br>4<br>9 |
| Centrilobular, Necrosis             | 3   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 3.3                 |                       |                       |                       |
| Hepatocyte, Vacuolization           | 2   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 2.7                 |                       |                       |                       |
| Kupffer Cell, Pigmentation          | 3   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 1.0                 |                       |                       |                       |
| Mesentery                           | +   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 9                     |                       |                       |                       |
| Accessory Spleen                    | X   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |
| Fat, Necrosis                       | 2   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 8 2.1                 |                       |                       |                       |
| Pancreas                            | +   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                       |                       |
| Atrophy                             | 2 1 1 1 1 1 2 2 1 1 1                           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 23 1.2                |                       |                       |                       |
| Cyst                                | X X X X   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 9                     |                       |                       |                       |
| Acinus, Hyperplasia, Focal          | 4   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 2.5                 |                       |                       |                       |
| Salivary Glands                     | +   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                       |                       |
| Atrophy                             | 1 1 1   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 5 1.0                 |                       |                       |                       |
| Stomach, Forestomach                | +   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                       |                       |
| Inflammation, Chronic Active        | 1   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 1.0                 |                       |                       |                       |
| Epithelium, Hyperplasia             | 2   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 2.0                 |                       |                       |                       |
| Epithelium, Hyperplasia, Atypical   | 2   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |                       |                       |                       |
| Stomach, Glandular                  | +   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48                    |                       |                       |                       |
| Erosion                             | 2   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |                       |                       |                       |
| Ulcer                               | 3   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 2.3                 |                       |                       |                       |
| <b>CARDIOVASCULAR SYSTEM</b>        |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Heart                               | +   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                       |                       |
| Cardiomyopathy                      | 1 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 30 1.2                |                       |                       |                       |
| <b>ENDOCRINE SYSTEM</b>             |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |

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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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| FISCHER 344 RATS FEMALE<br>25 MG/KG | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |     |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|
|                                     | 0390        | 0731  | 0731  | 0731  | 0652  | 0731  | 0731  | 0731  | 0331  | 0541  | 0731  | 0661  | 0661  | 0171  | 0731  | 0731  | 0731  | 0331  | 0441  | 0731  |          | 0731  | 0661  | 0471  | 0731  | 0661  | 0471  | 0731  | 0661  | 0471  | 0731  | 0661  | 0471  | 0731  | 0661  | 0471 |     |
| ANIMAL ID                           | 00326       | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346    | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 |      |     |
| Adrenal Cortex                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 46    |      |     |
| Accessory Adrenal Cortical Nodule   |             | 1     | 1     |       |       |       |       | 1     |       | 2     | 1     | 1     |       | 1     | 1     |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 13   | 1.3 |
| Degeneration, Fatty                 |             |       |       |       | 2     |       | 2     | 1     | 1     |       | 1     | 2     | 3     |       | 1     | 1     |       |       | 1     | 2     | 3        |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 19   | 1.7 |
| Hematopoietic Cell Proliferation    |             |       |       |       |       |       |       |       |       |       |       | 1     | 1     |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4    | 1.0 |
| Hemorrhage                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1    | 3.0 |
| Hyperplasia, Focal                  |             |       |       |       |       |       | 1     | 1     |       | 2     | 1     |       |       | 1     |       |       |       |       |       |       |          | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       | 9    | 1.6 |
| Hypertrophy, Focal                  |             |       |       |       |       | 1     |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2    | 1.0 |
| Necrosis                            |             |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |          | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       | 6    | 2.7 |
| Adrenal Medulla                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 48    |      |     |
| Hyperplasia                         |             |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3    | 2.0 |
| Islets, Pancreatic                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50   |     |
| Hyperplasia                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1    | 4.0 |
| Parathyroid Gland                   | +           | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 47    |      |     |
| Pituitary Gland                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49   |     |
| Pigmentation                        |             |       |       |       |       |       | 1     | 2     | 1     |       |       |       |       |       |       |       |       |       |       |       |          | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       | 9    | 1.4 |
| Pars Distalis, Angiectasis          |             |       |       |       |       |       |       | 3     | 3     |       | 2     |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 5    | 2.2 |
| Pars Distalis, Atrophy              |             |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2    | 1.5 |
| Pars Distalis, Cyst                 |             |       |       |       | X     | X     | X     |       |       | X     | X     | X     |       |       |       |       |       |       | X     | X     |          | X     |       |       |       |       |       |       |       |       |       |       |       |       | 17    |      |     |
| Pars Distalis, Dilatation           |             |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1    | 1.0 |
| Pars Distalis, Hyperplasia, Focal   |             |       |       |       |       |       |       |       |       |       |       | 4     |       |       |       |       |       |       |       |       | 2        |       | 2     |       | 1     |       |       |       |       |       |       |       |       |       | 6     | 2.5  |     |
| Pars Intermedia, Cyst               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |      |     |
| Rathke's Cleft, Dilatation          |             |       |       |       |       |       | 1     | 1     | 1     | 1     | 1     |       | 1     |       |       |       |       |       |       |       |          | 1     | 1     | 3     |       |       |       |       |       |       |       |       |       |       | 13    | 1.2  |     |
| Thyroid Gland                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 44    |      |     |
| Degeneration, Cystic                |             | 2     |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 5    | 1.6 |
| Ultimobranchial Cyst                |             |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3    | 1.3 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE             | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |   |   |              |   |  |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|--------------|---|--|
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0 |   |              |   |  |
| 25 MG/KG                            | 3           | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 3 | 5 | 7 | 6 | 6 | 1 | 7 | 7 | 7 | 3 | 4 | 7 | 7        | 6 | 4 | 7            |   |  |
|                                     | 9           | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 5 | 4 | 3 | 5 | 1 | 7 | 3 | 2 | 2 | 3 | 9 | 2 | 3        | 3 | 9 | 8            | 1 |  |
|                                     | 0           | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 7 | 1 | 2 | 7 | 9 | 1 | 9 | 9 | 8 | 4 | 9 | 1        | 1 | 9 | 8            | 4 |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0 | 0            | 0 |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0 | 0            | 0 |  |
|                                     | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3        | 3 | 3 | 3            | 3 |  |
|                                     | 2           | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4        | 4 | 4 | 4            | 5 |  |
|                                     | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6        | 7 | 8 | 9            | 0 |  |
|                                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | <b>2</b>     |   |  |
| C-cell, Hyperplasia                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | <b>2 1.5</b> |   |  |
| Follicular Cell, Hyperplasia, Focal |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | <b>1 1.0</b> |   |  |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |  |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|--|
| Clitoral Gland        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |  |
| Cyst                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |    | 1      |  |
| Hyperplasia           |   |   | 4 |   |   | 3 |   |   |   |   | 3 |   | 2 |   |   |   |   |   | 2 |   |   | 4 |   |   |    | 11 2.7 |  |
| Inflammation, Chronic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |    | 1 2.0  |  |
| Ovary                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |  |
| Cyst                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2      |  |
| Bilateral, Cyst       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |    | 1      |  |
| Uterus                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |        |  |
| Hyperplasia, Cystic   |   |   |   |   | 4 |   |   | 2 |   | 2 |   |   | 1 |   |   | 1 |   | 1 |   | 4 | 2 |   |   |   |    | 19 2.2 |  |
| Cervix, Cyst          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |    | 1      |  |
| Vagina                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1      |  |

**HEMATOPOIETIC SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|--|
| Bone Marrow                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |  |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 6 3.5 |  |
| Infiltration Cellular, Histiocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 1.0 |  |
| Lymph Node                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 6     |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>25 MG/KG   | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |   |   |       |        |        |        |
|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|-------|--------|--------|--------|
|                                       | 0<br>3<br>9<br>0      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>6<br>5<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>3<br>5<br>1      | 0<br>5<br>4<br>7      | 0<br>7<br>3<br>1      | 0<br>6<br>5<br>2      | 0<br>6<br>1<br>7      | 0<br>7<br>3<br>1      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>3<br>3<br>8      | 0<br>4<br>9<br>4      | 0<br>7<br>2<br>1      | 0<br>7<br>3<br>1      |                       | 0<br>6<br>9<br>8      | 0<br>4<br>8<br>1      | 0<br>7<br>4<br>1      |   |   |       |        |        |        |
| ANIMAL ID                             | 0<br>0<br>3<br>2<br>6 | 0<br>0<br>3<br>2<br>7 | 0<br>0<br>3<br>2<br>8 | 0<br>0<br>3<br>2<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 | 0<br>0<br>3<br>3<br>7 | 0<br>0<br>3<br>3<br>8 | 0<br>0<br>3<br>3<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 | 0<br>0<br>3<br>3<br>7 | 0<br>0<br>3<br>3<br>8 | 0<br>0<br>3<br>3<br>9 |   |   |       |        |        |        |
| Mediastinal, Hemorrhage               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 | 3 | 2 2.0 |        |        |        |
| Mediastinal, Hyperplasia, Lymphoid    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 2 | 2     | 3 2.0  |        |        |
| Mediastinal, Pigmentation             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       | 1 2.0  |        |        |
| Pancreatic, Hemorrhage                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 3     | 3      | 2 3.0  |        |
| Pancreatic, Hyperplasia, Lymphoid     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2     | 1      | 2.0    |        |
| Pancreatic, Pigmentation              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2     | 1      | 2.0    |        |
| Lymph Node, Mandibular                | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M                     | M | M | M     | 1      |        |        |
| Lymph Node, Mesenteric Hemorrhage     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | + | +     | 47     | 6 1.7  |        |
| Hyperplasia, Lymphoid                 |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2     | 4      | 1.5    |        |
| Necrosis                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       | 1      | 1.0    |        |
| Pigmentation                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   | 2     | 1      | 2.0    |        |
| Spleen                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | + | +     | 48     |        |        |
| Hematopoietic Cell Proliferation      |                       |                       | 2                     | 2                     | 1                     |                       | 1                     | 1                     |                       |                       |                       | 1                     | 4                     | 4                     |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       | 2      | 21 2.0 |        |
| Necrosis                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       | 3      | 3 2.3  |        |
| Pigmentation                          | 3                     | 3                     | 2                     | 3                     |                       | 2                     | 3                     | 3                     | 3                     | 4                     | 3                     |                       |                       |                       | 3                     | 2                     | 3                     | 3                     | 3                     | 3                     | 3                     | 3                     | 3                     | 3                     | 3 | 3 | 3     | 39 2.9 |        |        |
| Lymphoid Follicle, Atrophy            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       |        | 2      | 2.5    |
| Lymphoid Follicle, Hyperplasia        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       | 1      | 2 1.0  |        |
| Lymphoid Follicle, Hyperplasia, Focal |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       | 3      | 1 3.0  |        |
| Thymus                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | + | +     | 50     |        |        |
| Necrosis                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       |        | 1      | 1.0    |
| <b>INTEGUMENTARY SYSTEM</b>           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       |        |        |        |
| Mammary Gland                         | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | + | +     | 50     |        |        |
| Hyperplasia                           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       |        | 2      | 10 1.6 |
| Malformation                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |   |       |        | 1      | 1      |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>25 MG/KG | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |                  |     |     |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|-----|-----|
|                                     | 0<br>3<br>9<br>0      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>6<br>5<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>3<br>5<br>1      | 0<br>5<br>4<br>7      | 0<br>7<br>3<br>1      | 0<br>6<br>5<br>2      | 0<br>6<br>1<br>7      | 0<br>7<br>3<br>1      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>3<br>3<br>8      | 0<br>4<br>9<br>4      | 0<br>7<br>2<br>1      | 0<br>7<br>3<br>1      |                       |                       | 0<br>6<br>9<br>9      | 0<br>4<br>8<br>8      | 0<br>7<br>9<br>1 |     |     |
| ANIMAL ID                           | 0<br>0<br>3<br>2<br>6 | 0<br>0<br>3<br>2<br>7 | 0<br>0<br>3<br>2<br>8 | 0<br>0<br>3<br>2<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 | 0<br>0<br>3<br>3<br>7 | 0<br>0<br>3<br>3<br>8 | 0<br>0<br>3<br>3<br>9 | 0<br>0<br>3<br>4<br>0 | 0<br>0<br>3<br>4<br>1 | 0<br>0<br>3<br>4<br>2 | 0<br>0<br>3<br>4<br>3 | 0<br>0<br>3<br>4<br>4 | 0<br>0<br>3<br>4<br>5 | 0<br>0<br>3<br>4<br>6 | 0<br>0<br>3<br>4<br>7 | 0<br>0<br>3<br>4<br>8 | 0<br>0<br>3<br>4<br>9 |                  |     |     |
| Duct, Ectasia                       |                       | 2                     | 2                     | 2                     | 1                     | 2                     | 2                     | 1                     |                       | 2                     | 3                     | 2                     | 2                     |                       | 2                     | 2                     | 1                     |                       | 1                     | 1                     | 2                     | 1                     | 2                     | 1                     | 1                | 39  | 1.9 |
| Skin                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50               |     |     |
| Cyst Epithelial Inclusion           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                |     |     |
| Hyperkeratosis                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                | 2.0 |     |
| <b>MUSCULOSKELETAL SYSTEM</b>       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |     |     |
| Bone                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50               |     |     |
| Skeletal Muscle                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                |     |     |
| <b>NERVOUS SYSTEM</b>               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |     |     |
| Brain                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                  |     |     |
| Compression                         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       | X                     | 6                |     |     |
| Gliosis                             |                       |                       |                       |                       |                       |                       |                       | 3                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 3.0              |     |     |
| Mineralization                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 2.0              |     |     |
| Necrosis                            |                       |                       |                       |                       |                       |                       | 3                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 2.7              |     |     |
| Pigmentation                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 5                     | 1.2              |     |     |
| <b>RESPIRATORY SYSTEM</b>           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |     |     |
| Lung                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                  |     |     |
| Infiltration Cellular, Histiocyte   |                       |                       | 1                     | 1                     | 1                     | 1                     | 1                     | 1                     | 1                     |                       | 2                     | 2                     |                       |                       | 1                     | 1                     | 1                     |                       | 1                     | 1                     |                       | 1                     | 1                     | 2                     | 36               | 1.1 |     |
| Inflammation, Chronic               |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       | 1                     |                       | 1                     | 5                     | 1.0              |     |     |
| Metaplasia, Osseous                 |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 1.5              |     |     |
| Alveolar Epithelium, Hyperplasia    |                       | 1                     |                       |                       |                       | 1                     | 1                     | 1                     |                       |                       | 1                     | 3                     | 2                     |                       | 1                     |                       |                       | 1                     |                       |                       |                       |                       | 3                     | 17                    | 1.3              |     |     |
| Nose                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                  |     |     |
| Foreign Body                        |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       | 2                     | 3                     | 1.3              |     |     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST  | FISCHER 344 RATS FEMALE |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |       |               |               |
|--|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|---------------|---------------|
|  | 0390                    | 0731  | 0731  | 0733  | 0655  | 0733  | 0733  | 0733  | 0351  | 0543  | 0731  | 0662  | 0661  | 0173  | 0772  | 0772  | 0772  | 0333  | 0492  | 0473  |          | 0776  | 0447  | 0764  | 0771  | 0699  | 0488  | 0714          |               |
| ANIMAL ID  | 25 MG/KG                |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |               |               |
|  | 00326                   | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333    | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 |               |               |
| Inflammation, Chronic<br>Respiratory Epithelium, Hyperplasia | 2                       |       | 1     |       |       |       |       |       |       |       | 2     |       |       |       |       | 1     | 1     |       |       |       |          | 2     | 1     | 2     |       |       |       | <b>9 1.4</b>  |               |
|  | 2                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |          |       |       |       |       |       |       | <b>2 1.5</b>  |               |
| Trachea  | +                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | <b>50</b>     |               |
| <b>SPECIAL SENSES SYSTEM</b>                                 |                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |               |               |
| Eye  | A                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A        | +     | +     | +     | +     | A     | +     | +             | <b>41</b>     |
| Cataract   |                         |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 4     |       |       |       |       |       |               | <b>2 3.0</b>  |
| Edema  |                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 4     | 1     |       |       |       |       |               | <b>2 2.5</b>  |
| Bilateral, Cataract  |                         |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |               | <b>1 2.0</b>  |
| Retina, Degeneration   |                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 4     | 1     |       |       |       |       |               | <b>2 2.5</b>  |
| Harderian Gland  | +                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +             | <b>49</b>     |
| Hemorrhage   |                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2     |       |       |       |       |       |               | <b>4 2.0</b>  |
| Hyperplasia  |                         |       | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |               | <b>1 3.0</b>  |
| Inflammation, Chronic  | 1                       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       | 1     |       | 1     |       |       |          | 2     |       |       |       | 2     |       |               | <b>9 1.3</b>  |
| <b>URINARY SYSTEM</b>  |                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |               |               |
| Kidney   | +                       | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | A     | +     | A     | <b>40</b>     |               |
| Casts Protein  |                         | 1     | 2     |       |       |       |       | 1     |       |       | 2     |       | 1     |       | 1     | 1     |       |       |       |       |          |       |       |       |       |       |       |               | <b>12 1.3</b> |
| Infarct  |                         | 4     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |               | <b>1 4.0</b>  |
| Inflammation, Chronic  |                         | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |               | <b>3 2.0</b>  |
| Mineralization   |                         | 1     |       | 2     | 1     |       | 1     | 1     |       |       |       |       | 1     | 1     |       |       |       |       | 1     | 1     | 1        | 1     |       |       |       |       |       | <b>17 1.2</b> |               |
| Nephropathy  |                         | 1     | 1     | 1     |       | 1     | 1     | 1     |       | 1     |       | 1     |       | 1     | 1     |       |       | 1     | 2     | 1     | 1        | 1     |       | 1     |       |       |       | <b>26 1.0</b> |               |
| Renal Tubule, Accumulation, Hyaline Droplet                  |                         |       |       |       |       |       | 3     |       |       |       |       |       | 3     |       |       |       |       |       |       |       |          | 3     |       |       |       |       |       | <b>4 2.8</b>  |               |
| Renal Tubule, Necrosis                                       |                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |               | <b>1 1.0</b>  |
| Urinary Bladder  | +                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +             | <b>50</b>     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females<br>(cont...) |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      |
| 4                       | 6           | 5 | 6 | 5 | 1 | 2 | 7 | 6 | 8 | 5 | 8 | 7 | 2 | 9 | 7 | 3 | 3 | 2 | 5 | 4 | 8 | 0 | 5 | 7 | 3         |                      |
| 6                       | 1           | 2 | 5 | 4 | 1 | 7 | 6 | 9 | 6 | 2 | 9 | 4 | 0 | 3 | 9 | 9 | 7 | 0 | 8 | 9 | 1 | 2 | 9 | 9 | 3         |                      |
| 0                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |                      |
| 3                       | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         |                      |
| 5                       | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7         |                      |
| 1                       | 2           | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 0         |                      |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Large, Cecum                       | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | A | + | + | + |   |
| Intestine Large, Colon                       | + | + | + | + | + | + | + | A | A | + | A | A | A | + | + | + | + | A | + | A | A | A | A | + |   |
| Intestine Large, Rectum Hemorrhage           | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Duodenum Necrosis, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Intestine Small, Ileum                       | + | + | A | + | + | + | A | + | A | + | + | A | A | + | + | + | + | A | + | + | A | A | + | A | + |
| Intestine Small, Jejunum Necrosis, Lymphoid  | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | A | A | + | A | + |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Basophilic Focus                             |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   | X | X |   |   |   |   |   |   | X |   |
| Hepatodiaphragmatic Nodule                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |
| Infiltration Cellular, Histiocyte            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infiltration Cellular, Mixed Cell            |   |   |   |   |   |   | 2 |   |   | 1 |   |   |   |   |   | 1 | 1 |   |   |   |   |   |   | 1 |   |
| Necrosis, Focal                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |
| Mesentery                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Accessory Spleen                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fat, Necrosis                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>50 MG/KG | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females<br>(cont...) |   |   |   |   |   |  |  |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|---|---|---|---|--|--|
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      | 0 |   |   |   |   |  |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 1 | 1 | 1 | 0         | 1                    | 0 | 0 | 0 | 0 | 2 |  |  |
|                                     | 4           | 6 | 5 | 6 | 5 | 1 | 2 | 7 | 8 | 5 | 8 | 7 | 2 | 9 | 7 | 3 | 3 | 2 | 5 | 4 | 8         | 0                    | 5 | 7 | 3 | 3 |   |  |  |
|                                     | 6           | 1 | 2 | 5 | 4 | 1 | 7 | 6 | 9 | 6 | 2 | 9 | 4 | 0 | 3 | 9 | 9 | 7 | 0 | 8 | 9         | 1                    | 2 | 9 | 9 | 9 |   |  |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    | 0 | 0 | 0 | 0 | 0 |  |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    | 0 | 0 | 0 | 0 | 0 |  |  |
|                                     | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         | 3                    | 3 | 3 | 3 | 3 | 3 |  |  |
|                                     | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7         | 7                    | 7 | 7 | 7 | 7 | 7 |  |  |
|                                     | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1         | 2                    | 3 | 4 | 5 | 5 |   |  |  |

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |
| Atrophy                   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Cyst                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Atrophy                   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Mineralization            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Necrosis                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |  |  |
| Vacuolization Cytoplasmic |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Erosion                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |  |  |
| Ulcer                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |

**CARDIOVASCULAR SYSTEM**

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Blood Vessel     |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Heart            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Cardiomyopathy   | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Hemorrhage       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Artery, Necrosis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Accessory Adrenal Cortical Nodule |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Degeneration, Fatty               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>50 MG/KG | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females<br>(cont...) |   |   |   |   |   |  |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|---|---|---|---|--|
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      | 0 |   |   |   |   |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 1 | 1 | 1 | 0         | 1                    | 0 | 0 | 0 | 2 |   |  |
|                                     | 4           | 6 | 5 | 6 | 5 | 1 | 2 | 7 | 8 | 5 | 8 | 7 | 2 | 9 | 7 | 3 | 3 | 2 | 5 | 4 | 8         | 0                    | 5 | 7 | 3 |   |   |  |
|                                     | 6           | 1 | 2 | 5 | 4 | 1 | 7 | 6 | 9 | 6 | 2 | 9 | 4 | 0 | 3 | 9 | 9 | 7 | 0 | 8 | 9         | 1                    | 2 | 9 | 3 |   |   |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    | 0 | 0 | 0 |   |   |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    | 0 | 0 | 0 |   |   |  |
|                                     | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         | 3                    | 3 | 3 | 3 |   |   |  |
|                                     | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7         | 7                    | 7 | 7 | 7 |   |   |  |
|                                     | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1         | 2                    | 3 | 4 | 5 |   |   |  |
| Hemorrhage                          | 2           |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |  |
| Hyperplasia, Focal                  |             |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |  |
| Hypertrophy, Focal                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |  |
| Inflammation, Acute                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |  |
| Necrosis                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |  |
| Adrenal Medulla                     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + |   |   |  |
| Angiectasis                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   | 2 |  |
| Islets, Pancreatic                  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + |   |   |  |
| Parathyroid Gland                   | M           | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + |   |   |  |
| Pituitary Gland                     | +           | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + |   |   |  |
| Pars Distalis, Angiectasis          |             |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |  |
| Pars Distalis, Atrophy              |             |   |   |   |   | 2 |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |           |                      | 3 |   |   |   | 2 |  |
| Pars Distalis, Cyst                 |             |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      | X |   |   |   |   |  |
| Pars Distalis, Hyperplasia, Focal   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |  |
| Pars Intermedia, Cyst               |             |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |  |
| Rathke's Cleft, Dilatation          | 2           |   |   |   |   | 1 | 2 | 1 |   |   | 3 | 1 |   |   |   |   | 1 |   | 1 | 1 | 1         | 1                    |   |   | 1 |   |   |  |
| Thyroid Gland                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + |   |   |  |
| Ectopic Thymus                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |  |
| Ultimobranchial Cyst                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   | 2 |  |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>50 MG/KG  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females<br>(cont...) |   |   |   |   |   |   |   |  |  |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|---|---|---|---|---|---|--|--|
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      | 0 |   |   |   |   |   |   |  |  |
|  | 0           | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 1 | 1 | 1 | 0         | 1                    | 0 | 0 | 1 | 0 | 0 | 0 | 2 |  |  |
|  | 4           | 6 | 5 | 6 | 5 | 1 | 2 | 7 | 8 | 5 | 8 | 7 | 2 | 9 | 7 | 3 | 3 | 2 | 5 | 4 | 8         | 0                    | 5 | 7 | 3 | 9 |   |   |   |  |  |
|  | 6           | 1 | 2 | 5 | 4 | 1 | 7 | 6 | 9 | 6 | 2 | 9 | 4 | 0 | 3 | 9 | 9 | 7 | 0 | 8 | 9         | 1                    | 2 | 9 | 3 | 9 |   |   |   |  |  |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    | 0 | 0 | 0 | 0 | 0 | 0 |   |  |  |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    | 0 | 0 | 0 | 0 | 0 | 0 |   |  |  |
|  | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         | 3                    | 3 | 3 | 3 | 3 | 3 | 3 |   |  |  |
|  | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7         | 7                    | 7 | 7 | 7 | 7 | 7 | 7 |   |  |  |
|  | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1         | 2                    | 3 | 4 | 5 |   |   |   |   |  |  |
| Clitoral Gland<br>Infiltration Cellular, Lymphocyte<br>Inflammation, Chronic | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + | + |   |  |  |
| Ovary<br>Cyst  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + | + |   |  |  |
| Uterus<br>Hyperplasia, Cystic  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + | + |   |  |  |
| <b>HEMATOPOIETIC SYSTEM</b>  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |  |  |
| Bone Marrow<br>Infiltration Cellular, Histiocyte<br>Necrosis                 | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + | + |   |  |  |
| Lymph Node<br>Iliac, Hemorrhage  |             |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |  |  |
| Iliac, Hyperplasia, Lymphoid   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |  |  |
| Iliac, Pigmentation  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |  |  |
| Mediastinal, Hemorrhage  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |  |  |
| Mediastinal, Hyperplasia, Lymphoid   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |  |  |
| Mediastinal, Pigmentation  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |  |  |
| Pancreatic, Hemorrhage   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |  |  |
| Pancreatic, Hyperplasia, Lymphoid  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |  |  |
| Pancreatic, Pigmentation   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |   |  |  |
| Lymph Node, Mandibular<br>Hyperplasia, Lymphoid                              | M           | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M         | M                    | M | M | M | M | M | M |   |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>50 MG/KG | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females<br>(cont...) |   |   |   |   |   |   |  |  |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|---|---|---|---|---|--|--|
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      | 0 |   |   |   |   |   |  |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 1 | 1 | 1 | 0         | 0                    | 1 | 0 | 0 | 0 | 2 |   |  |  |
|                                     | 4           | 6 | 5 | 6 | 5 | 1 | 2 | 7 | 8 | 5 | 8 | 7 | 2 | 9 | 7 | 3 | 3 | 2 | 5 | 4 | 8         | 0                    | 5 | 7 | 3 | 9 |   |   |  |  |
|                                     | 6           | 1 | 2 | 5 | 4 | 1 | 7 | 6 | 9 | 6 | 2 | 9 | 4 | 0 | 3 | 9 | 9 | 7 | 0 | 8 | 9         | 1                    | 2 | 9 | 3 | 9 |   |   |  |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    | 0 | 0 | 0 | 0 | 0 |   |  |  |
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0                    | 0 | 0 | 0 | 0 | 0 |   |  |  |
|                                     | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         | 3                    | 3 | 3 | 3 | 3 | 3 |   |  |  |
|                                     | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7         | 7                    | 7 | 7 | 7 | 7 | 7 |   |  |  |
|                                     | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1         | 2                    | 3 | 4 | 5 | 6 | 7 |   |  |  |
| Lymph Node, Mesenteric Hemorrhage   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + |   |  |  |
| Hyperplasia, Lymphoid Necrosis      |             |   |   |   |   |   |   |   |   | 2 |   |   | 1 |   |   | 2 |   |   |   |   |           |                      |   |   |   |   | 2 |   |  |  |
| Spleen Necrosis                     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + |   |  |  |
| Pigmentation                        |             |   | 3 |   | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 1 | 2 | 2 | 2 | 1 | 2 |   | 3         | 2                    | 3 |   |   | 2 | 2 |   |  |  |
| Lymphoid Follicle, Atrophy          |             |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |  |  |
| Lymphoid Follicle, Hyperplasia      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 2         |                      |   |   |   |   |   |   |  |  |
| Thymus Necrosis                     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + |   |  |  |
|                                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   | 1 |           |                      |   |   |   |   |   |   |  |  |
| <b>INTEGUMENTARY SYSTEM</b>         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |  |  |
| Mammary Gland                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + | + |  |  |
| Skin                                | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + | + |  |  |
| <b>MUSCULOSKELETAL SYSTEM</b>       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |  |  |
| Bone                                | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + | + |  |  |
| <b>NERVOUS SYSTEM</b>               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |  |  |
| Brain Pigmentation                  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | +                    | + | + | + | + | + | + |  |  |
|                                     | 1           |   |   | 1 |   | 1 |   | 1 | 1 |   | 1 |   | 1 |   |   |   |   |   |   |   |           |                      |   | 1 | 1 |   |   |   |  |  |
| <b>RESPIRATORY SYSTEM</b>           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |   |   |   |   |   |   |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked





TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |    |    |    |
|-------------|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
|             | 01                      | 01 | 01 | 01 | 02 | 01 | 01 | 01 | 00 | 01 | 00 | 00 | 01 | 00 | 01 | 00 | 02 | 01 | 01 | 02 |          | 01 | 01 | 00 | 01 |
| 5           | 7                       | 0  | 4  | 3  | 1  | 0  | 5  | 8  | 8  | 4  | 7  | 3  | 8  | 4  | 8  | 0  | 9  | 6  | 3  | 3  | 7        | 9  | 5  | 9  |    |
| 6           | 7                       | 2  | 3  | 9  | 0  | 6  | 3  | 7  | 3  | 4  | 1  | 4  | 7  | 8  | 9  | 4  | 0  | 3  | 5  | 0  | 7        | 3  | 8  | 9  |    |
| ANIMAL ID   | 00                      | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       | 00 | 00 | 00 |    |
|             | 33                      | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33       | 33 | 33 | 33 |    |
|             | 77                      | 77 | 77 | 77 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88       | 88 | 88 | 88 |    |
|             | 67                      | 67 | 68 | 69 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 60 | 61 | 62 | 63 | 64 | 65 | 66       | 67 | 68 | 69 |    |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|----|
| Esophagus                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |    |
| Intestine Large, Cecum                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     |    |
| Intestine Large, Colon                       | A | A | + | A | + | A | A | A | A | A | + | A | + | A | A | + | A | + | + | A | + | A | + | + | 25     |    |
| Intestine Large, Rectum Hemorrhage           | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     |    |
|  | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0  |    |
| Intestine Small, Duodenum Necrosis, Lymphoid | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 47     |    |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 1.0  |    |
| Intestine Small, Ileum                       | M | + | A | A | + | A | A | A | + | A | + | + | A | + | A | A | + | + | + | + | A | + | A | + | +      | 29 |
| Intestine Small, Jejunum Necrosis, Lymphoid  | + | A | A | A | + | A | A | A | + | + | + | + | + | + | A | + | A | A | A | A | + | A | A | + | +      | 31 |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 1.0  |    |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |    |
| Basophilic Focus                             | X |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   | X | X | X |   |   |   | X |   | 12     |    |
| Hepatodiaphragmatic Nodule                   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | 4      |    |
| Infiltration Cellular, Histiocyte            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   | X |   |   |   |   | 1 2.0  |    |
| Infiltration Cellular, Mixed Cell            | 1 | 1 |   | 1 | 1 | 2 | 1 | 1 | 1 |   |   |   | 1 |   | 1 | 1 |   |   |   | 1 | 3 |   | 1 |   | 19 1.2 |    |
| Necrosis, Focal                              |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 2 | 4 1.5  |    |
| Mesentery                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2      |    |
| Accessory Spleen                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |    |
| Necrosis                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0  |    |
| Fat, Necrosis                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0  |    |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>50 MG/KG | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                     | 0<br>1<br>5<br>6      | 0<br>1<br>7<br>7      | 0<br>1<br>0<br>2      | 0<br>1<br>4<br>3      | 0<br>2<br>3<br>9      | 0<br>1<br>1<br>0      | 0<br>1<br>0<br>6      | 0<br>1<br>5<br>3      | 0<br>0<br>8<br>7      | 0<br>1<br>8<br>3      | 0<br>0<br>4<br>4      | 0<br>0<br>7<br>1      | 0<br>0<br>3<br>4      | 0<br>0<br>8<br>7      | 0<br>0<br>4<br>8      | 0<br>0<br>0<br>9      | 0<br>0<br>6<br>4      | 0<br>0<br>3<br>5      | 0<br>0<br>3<br>0      | 0<br>0<br>7<br>3      | 0<br>0<br>9<br>5      | 0<br>0<br>5<br>8      | 0<br>0<br>9<br>9      | 0<br>0<br>9<br>0      |                       |
| ANIMAL ID                           | 0<br>0<br>3<br>7<br>6 | 0<br>0<br>3<br>7<br>8 | 0<br>0<br>3<br>7<br>8 | 0<br>0<br>3<br>7<br>9 | 0<br>0<br>3<br>8<br>0 | 0<br>0<br>3<br>8<br>1 | 0<br>0<br>3<br>8<br>2 | 0<br>0<br>3<br>8<br>3 | 0<br>0<br>3<br>8<br>4 | 0<br>0<br>3<br>8<br>5 | 0<br>0<br>3<br>8<br>6 | 0<br>0<br>3<br>8<br>7 | 0<br>0<br>3<br>8<br>8 | 0<br>0<br>3<br>8<br>9 | 0<br>0<br>3<br>9<br>0 | 0<br>0<br>3<br>9<br>1 | 0<br>0<br>3<br>9<br>2 | 0<br>0<br>3<br>9<br>3 | 0<br>0<br>3<br>9<br>4 | 0<br>0<br>3<br>9<br>5 | 0<br>0<br>3<br>9<br>6 | 0<br>0<br>3<br>9<br>7 | 0<br>0<br>3<br>9<br>8 | 0<br>0<br>3<br>9<br>9 | 0<br>0<br>4<br>0<br>0 |
| Pancreas                            | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Atrophy                             |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 2                     |                       |                       |                       |                       | 5                     |
| Cyst                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Salivary Glands                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                       |
| Atrophy                             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 2                     |                       |
| Hyperplasia                         |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |
| Mineralization                      |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |
| Necrosis                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |
| Vacuolization Cytoplasmic           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |
| Stomach, Forestomach                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                       |
| Stomach, Glandular                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                       |
| Erosion                             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |                       |
| Ulcer                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |
| <b>CARDIOVASCULAR SYSTEM</b>        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Blood Vessel                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     | 3                     |
| Heart                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                       |
| Cardiomyopathy                      |                       | 1                     |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 1                     |                       |                       |                       | 8                     |                       |
| Hemorrhage                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       | 1                     |                       |
| Artery, Necrosis                    |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |
| <b>ENDOCRINE SYSTEM</b>             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Adrenal Cortex                      | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |                       |
| Accessory Adrenal Cortical Nodule   |                       |                       | 2                     | 1                     | 1                     |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       | 1                     |                       | 1                     |                       | 9                     |                       |
| Degeneration, Fatty                 | 1                     | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 1                     |                       |                       | 9                     |                       |

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 + .. Tissue examined microscopically  
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 I .. Insufficient tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>50 MG/KG | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |        |   |        |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--------|---|--------|
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0      |   |        |
| ANIMAL ID                           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |        |   |        |
|                                     | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |        |   |        |
|                                     | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3        |        |   |        |
|                                     | 7           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9        |        |   |        |
|                                     | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6        |        |   |        |
| Hemorrhage                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4        | 3 2.7  |   |        |
| Hyperplasia, Focal                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1 1.0  |   |        |
| Hypertrophy, Focal                  |             |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |          | 1 2.0  |   |        |
| Inflammation, Acute                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1 2.0  |   |        |
| Necrosis                            |             |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |          | 4 2.5  |   |        |
| Adrenal Medulla                     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50     |   |        |
| Angiectasis                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1 2.0  |   |        |
| Islets, Pancreatic                  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50     |   |        |
| Parathyroid Gland                   | +           | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | +        | 45     |   |        |
| Pituitary Gland                     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | +        | 48     |   |        |
| Pars Distalis, Angiectasis          |             |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 2 1.0  |   |        |
| Pars Distalis, Atrophy              | 1           |   |   |   |   |   |   |   | 3 |   | 3 |   | 1 | 1 |   |   | 4 |   |   | 2 | 3        | 12 2.3 |   |        |
| Pars Distalis, Cyst                 |             | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X | X | X        | 8      |   |        |
| Pars Distalis, Hyperplasia, Focal   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |          | 1 2.0  |   |        |
| Pars Intermedia, Cyst               |             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |          | 2      |   |        |
| Rathke's Cleft, Dilatation          |             | 1 |   |   | 1 |   | 1 |   |   |   | 3 | 2 | 1 | 1 |   | 1 |   | 2 | 2 | 1 | 1        | 1      | 1 | 26 1.3 |
| Thyroid Gland                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50     |   |        |
| Ectopic Thymus                      |             |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |          | 1 2.0  |   |        |
| Ultimobranchial Cyst                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 2 2.0  |   |        |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST                        | FISCHER 344 RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |    |       |
|------------------------------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----|-------|
|                                    | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0  | 0     |
| ANIMAL ID                          | 50 MG/KG                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |    |       |
|                                    | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0  | 0     |
| Clitoral Gland                     | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50 |       |
| Infiltration Cellular, Lymphocyte  |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    | 1 2.0 |
| Inflammation, Chronic              |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    | 1 1.0 |
| Ovary                              | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50 |       |
| Cyst                               |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    | 1     |
| Uterus                             | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50 |       |
| Hyperplasia, Cystic                |                         |   |   |   |   |   |   |   |   |   |   | 2 | 1 |   |   | 3 |   |   |   | 1 |          |    | 9 2.2 |
| <b>HEMATOPOIETIC SYSTEM</b>        |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    |       |
| Bone Marrow                        | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50 |       |
| Infiltration Cellular, Histiocyte  | 2                       |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   | 1 |   | 3 |   |   |          |    | 4 1.8 |
| Necrosis                           |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2        |    | 1 2.0 |
| Lymph Node                         |                         |   |   |   |   |   |   |   |   |   |   | + |   |   |   | + |   | + |   |   |          |    | 7     |
| Iliac, Hemorrhage                  |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    | 1 2.0 |
| Iliac, Hyperplasia, Lymphoid       |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    | 1 2.0 |
| Iliac, Pigmentation                |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    | 1 2.0 |
| Mediastinal, Hemorrhage            |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    | 2 4.0 |
| Mediastinal, Hyperplasia, Lymphoid |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    | 2 2.5 |
| Mediastinal, Pigmentation          |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    | 1 2.0 |
| Pancreatic, Hemorrhage             |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3        |    | 1 3.0 |
| Pancreatic, Hyperplasia, Lymphoid  |                         |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   | 2 |   | 1 |   |   | 3        |    | 4 2.3 |
| Pancreatic, Pigmentation           |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2        |    | 1 2.0 |
| Lymph Node, Mandibular             | M                       | M | + | M | M | M | M | M | M | M | M | M | M | + | M | + | M | M | M | M | M        | M  | 4     |
| Hyperplasia, Lymphoid              |                         |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |    | 2 2.5 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>50 MG/KG | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                     | 0<br>1<br>5<br>6      | 0<br>1<br>7<br>7      | 0<br>1<br>0<br>2      | 0<br>1<br>4<br>3      | 0<br>2<br>3<br>9      | 0<br>1<br>1<br>0      | 0<br>1<br>0<br>6      | 0<br>1<br>5<br>3      | 0<br>0<br>8<br>7      | 0<br>1<br>8<br>3      | 0<br>0<br>4<br>4      | 0<br>0<br>7<br>1      | 0<br>0<br>3<br>4      | 0<br>1<br>8<br>7      | 0<br>0<br>4<br>8      | 0<br>2<br>0<br>9      | 0<br>1<br>6<br>3      | 0<br>2<br>3<br>5      | 0<br>1<br>3<br>0      | 0<br>1<br>7<br>3      |                       | 0<br>0<br>9<br>5      | 0<br>1<br>5<br>8      | 0<br>0<br>8<br>9      |
| ANIMAL ID                           | 0<br>0<br>3<br>7<br>6 | 0<br>0<br>3<br>7<br>7 | 0<br>0<br>3<br>7<br>8 | 0<br>0<br>3<br>7<br>9 | 0<br>0<br>3<br>8<br>0 | 0<br>0<br>3<br>8<br>1 | 0<br>0<br>3<br>8<br>2 | 0<br>0<br>3<br>8<br>3 | 0<br>0<br>3<br>8<br>4 | 0<br>0<br>3<br>8<br>5 | 0<br>0<br>3<br>8<br>6 | 0<br>0<br>3<br>8<br>7 | 0<br>0<br>3<br>8<br>8 | 0<br>0<br>3<br>8<br>9 | 0<br>0<br>3<br>9<br>0 | 0<br>0<br>3<br>9<br>1 | 0<br>0<br>3<br>9<br>2 | 0<br>0<br>3<br>9<br>3 | 0<br>0<br>3<br>9<br>4 | 0<br>0<br>3<br>9<br>5 | 0<br>0<br>3<br>9<br>6 | 0<br>0<br>3<br>9<br>7 | 0<br>0<br>3<br>9<br>8 | 0<br>0<br>3<br>9<br>9 |
| Lymph Node, Mesenteric Hemorrhage   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Hyperplasia, Lymphoid Necrosis      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 2                     |                       |                       | 1                     |                       |                       | 3 1.7                 |
| Spleen Necrosis                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Pigmentation                        | 3                     | 2                     | 3                     | 2                     | 2                     | 3                     | 2                     | 2                     | 2                     | 3                     |                       | 2                     | 2                     | 2                     | 3                     | 2                     | 3                     | 3                     | 3                     | 2                     | 2                     | 2                     | 2                     | 4 1.8                 |
| Lymphoid Follicle, Atrophy          |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 45 2.4                |
| Lymphoid Follicle, Hyperplasia      |                       | 2                     | 2                     |                       |                       | 2                     |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       | 2                     | 2                     |                       |                       |                       |                       |                       | 2 2.0                 |
| Thymus Necrosis                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
|                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       | 3 1.7                 |
| <b>INTEGUMENTARY SYSTEM</b>         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Mammary Gland                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Skin                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| <b>MUSCULOSKELETAL SYSTEM</b>       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Bone                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| <b>NERVOUS SYSTEM</b>               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Brain Pigmentation                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
|                                     | 1                     | 1                     | 2                     |                       |                       | 2                     |                       | 1                     |                       | 2                     |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       | 19 1.3                |
| <b>RESPIRATORY SYSTEM</b>           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 I .. Insufficient tissue  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010  
 Time Report Requested: 08:56:05  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST                       | FISCHER 344 RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |   |   |           |    |    |
|-----------------------------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|-----------|----|----|
|                                   | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0 |   |           |    |    |
| 1                                 | 1                       | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 1 | 1 | 2 | 1 | 1        | 0 | 1 | 0         | 50 |    |
| 5                                 | 7                       | 0 | 4 | 3 | 1 | 0 | 5 | 8 | 8 | 4 | 7 | 3 | 8 | 4 | 8 | 0 | 9 | 6 | 3 | 3 | 7        | 9 | 5 | 9         |    |    |
| 6                                 | 7                       | 2 | 3 | 9 | 0 | 6 | 3 | 7 | 3 | 4 | 1 | 4 | 7 | 8 | 9 | 4 | 0 | 3 | 5 | 0 | 7        | 3 | 8 | 9         |    |    |
| 0                                 | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0 | 0         |    | 50 |
| 0                                 | 0                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0 | 0         |    |    |
| 3                                 | 3                       | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3        | 3 | 3 | 4         |    |    |
| 7                                 | 7                       | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9        | 9 | 9 | 0         |    |    |
| 6                                 | 7                       | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7        | 8 | 9 | 0         |    |    |
| <b>Lung</b>                       |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | <b>50</b> |    |    |
| Hemorrhage                        |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 4.0     |    |    |
| Infiltration Cellular, Histiocyte |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 8 1.0     |    |    |
| Inflammation, Chronic             |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 1.0     |    |    |
| Necrosis                          |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 3.0     |    |    |
| Alveolar Epithelium, Hyperplasia  |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 4 1.0     |    |    |
| <b>Nose</b>                       |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | <b>50</b> |    |    |
| Congestion                        |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 2 2.5     |    |    |
| Foreign Body                      |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 1.0     |    |    |
| Inflammation, Chronic             |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 1.0     |    |    |
| Nasolacrimal Duct, Cyst           |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 1         |    |    |
| <b>Trachea</b>                    |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | <b>50</b> |    |    |
| <b>SPECIAL SENSES SYSTEM</b>      |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |           |    |    |
| <b>Eye</b>                        |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | <b>49</b> |    |    |
| Retina, Degeneration              |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 1 2.0     |    |    |
| <b>Harderian Gland</b>            |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | <b>50</b> |    |    |
| Inflammation, Chronic             |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 6 1.5     |    |    |
| <b>URINARY SYSTEM</b>             |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |           |    |    |
| <b>Kidney</b>                     |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | <b>50</b> |    |    |
| Mineralization                    |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 8 1.0     |    |    |
| Nephropathy                       |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | 4 1.0     |    |    |
| <b>Urinary Bladder</b>            |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   | <b>50</b> |    |    |

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