

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/11/2010  
**Time Report Requested:** 13:01:01  
**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

Note: Animals arranged according to days on test.

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

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	A	+	A	+	+	+	A	+	+	+	+	A	A	A	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	A	+	A	+	+	+	A	+	+	+	M	A	A	A	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	A	+	A	+	+	+	A	+	+	+	+	A	A	A	+	+	+	+	+	A	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ito Cell Tumor Benign																									
Sarcoma, Metastatic, Skin																X									
Mesentery					+		+	+		+													+		
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mixed Tumor Benign																							X		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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 BLANK .. Not examined microscopically



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

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+
Adenoma											X													
Carcinoma																							X	
Sarcoma, Metastatic, Skin																X								
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma																								
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Bilateral, Interstitial Cell, Adenoma						X				X		X				X		X	X			X	X	X
Interstitial Cell, Adenoma					X		X								X				X					

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node				M				+		+		+					+	+	+	+		+	+	
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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thymus	+	+	+	M	+	+	I	+	+	+	+	+	M	+	+	+	+	+	I	+	I	+	+	+

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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DAY ON TEST	FISCHER 344 RATS MALE																								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		
1	3	3	3	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	0	
6	5	6	7	4	4	4	7	7	1	1	3	5	5	7	7	7	7	8	0	0	1	1	2	2	0	
3	6	7	0	0	0	0	0	5	2	5	4	6	9	4	7	7	9	2	4	6	6	6	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	0	0	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	0	2	2	3	4	4	3	4	0	4	0	5	0	0	3	4	1	1	2	2	4	0	0	0	
4	7	2	9	5	2	0	3	4	1	5	9	1	0	3	8	8	4	8	3	6	4	7	7	9	0	

Fibroadenoma															X								X					
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Basal Cell Adenoma																			X									
Basal Cell Carcinoma																												
Keratoacanthoma																												
Sarcoma																												
Trichoepithelioma																							X	X				
Subcutaneous Tissue, Fibroma							X					X							X	X								
Subcutaneous Tissue, Fibrosarcoma				X																								
Subcutaneous Tissue, Fibrosarcoma, Multiple																												
Subcutaneous Tissue, Sarcoma															X													

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Osteosarcoma										X																
Skeletal Muscle										+																
Osteosarcoma, Metastatic, Bone										X																

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
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RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Alveolar/Bronchiolar Adenoma																							X		
Alveolar/Bronchiolar Carcinoma, Multiple															X										
Basal Cell Carcinoma, Metastatic, Skin																									
Osteosarcoma, Metastatic, Bone										X															

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DAY ON TEST	FISCHER 344 RATS MALE																								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	1	3	3	3	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	0		
6	5	6	7	4	4	4	7	7	1	1	3	5	5	7	7	7	7	8	0	0	1	1	2	2	0		
3	6	7	0	0	0	0	0	5	2	5	4	6	9	4	7	7	7	9	2	4	6	6	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	0	0	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	0	2	2	3	4	4	3	4	0	4	0	5	0	0	3	4	1	1	2	2	4	0	0	0		
4	7	2	9	5	2	0	3	4	1	5	9	1	0	3	8	8	4	8	3	6	4	7	7	9	0		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
<b>SPECIAL SENSES SYSTEM</b>																											
Eye	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
<b>URINARY SYSTEM</b>																											
Kidney	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
<b>SYSTEMIC LESIONS</b>																											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Histiocytic Sarcoma																											
Leukemia Mononuclear					X	X			X	X		X		X		X	X	X		X	X	X	X				
Mesothelioma Malignant																					X						

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FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																								* TOTALS
	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	
ANIMAL ID	0001	0001	0001	0002	0002	0003	0003	0003	0003	0003	0004	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	0001	45

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44
Intestine Large, Rectum	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	46
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	43
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ito Cell Tumor Benign																						X			1
Sarcoma, Metastatic, Skin																									1
Mesentery	+				+							+						+	+			+			11
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Mixed Tumor Benign																									1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729			
ANIMAL ID	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Schwannoma Benign																					X				2		
Schwannoma Malignant																						X			1		
<b>ENDOCRINE SYSTEM</b>																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Adenoma																									1		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Pheochromocytoma Benign				X			X													X			X	5			
Bilateral, Pheochromocytoma Benign								X																1			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Adenoma																						X		1			
Carcinoma																	X							2			
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	48		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Pars Distalis, Adenoma			X	X		X	X		X		X	X		X	X		X	X	X			X		24			
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46			
C-cell, Adenoma								X			X	X	X				A					X		6			
<b>GENERAL BODY SYSTEM</b>																											
Tissue NOS																								1			
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung																								1			
<b>GENITAL SYSTEM</b>																											

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	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	
0 MG/KG	00014	00015	00016	00017	00018	00019	00020	00021	00022	00023	00024	00025	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma																									2
Carcinoma																									1
Sarcoma, Metastatic, Skin																									1
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma																									2
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Bilateral, Interstitial Cell, Adenoma	X	X			X			X	X		X	X	X	X		X			X	X	X	X	X	X	25
Interstitial Cell, Adenoma			X	X		X	X							X				X							10

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node	+												+										+		12
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	2
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
---------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																								* TOTALS		
	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9	0 7 2 9			
ANIMAL ID	0 0 0 1 4	0 0 0 1 5	0 0 0 1 6	0 0 0 2 7	0 0 0 2 8	0 0 0 3 0	0 0 0 3 1	0 0 0 3 3	0 0 0 3 5	0 0 0 3 6	0 0 0 3 2	0 0 0 4 6	0 0 0 0 0	0 0 0 1 1	0 0 0 1 2	0 0 0 1 9	0 0 0 2 0	0 0 0 2 1	0 0 0 2 2	0 0 0 2 3	0 0 0 3 7	0 0 0 3 9	0 0 0 4 5	0 0 0 4 6	0 0 0 4 8		
Fibroadenoma				X																						3	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basal Cell Adenoma																										1	
Basal Cell Carcinoma																				X						1	
Keratoacanthoma	X					X	X					X		X												5	
Sarcoma					X							X														2	
Trichoepithelioma																										2	
Subcutaneous Tissue, Fibroma							X	X				X	X	X							X	X				11	
Subcutaneous Tissue, Fibrosarcoma																								X		2	
Subcutaneous Tissue, Fibrosarcoma, Multiple				X																						1	
Subcutaneous Tissue, Sarcoma																										1	
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Osteosarcoma																										1	
Skeletal Muscle																										2	
Osteosarcoma, Metastatic, Bone																										1	
<b>NERVOUS SYSTEM</b>																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>RESPIRATORY SYSTEM</b>																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Alveolar/Bronchiolar Adenoma																										1	
Alveolar/Bronchiolar Carcinoma, Multiple																										1	
Basal Cell Carcinoma, Metastatic, Skin																				X						1	
Osteosarcoma, Metastatic, Bone																										1	

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

DAY ON TEST	FISCHER 344 RATS MALE																								* TOTALS		
	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729		0729	
ANIMAL ID	0 MG/KG																								* TOTALS		
	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037		0038	0039
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>SPECIAL SENSES SYSTEM</b>																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>URINARY SYSTEM</b>																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	48	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>SYSTEMIC LESIONS</b>																											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Histiocytic Sarcoma																							X			1	
Leukemia Mononuclear	X		X			X		X		X			X		X			X			X					22	
Mesothelioma Malignant				X																						2	

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

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

Heart +

ENDOCRINE SYSTEM

Adrenal Cortex +

Adrenal Medulla +

Pheochromocytoma Benign X X

Bilateral, Pheochromocytoma Benign X

Islets, Pancreatic +

Adenoma

Carcinoma

Parathyroid Gland +

Pituitary Gland +

Pars Distalis, Adenoma X X X X

Pars Distalis, Adenoma, Multiple X X

Thyroid Gland + + + + + A + + + + + + + + + + + + + + + + + + + A

C-cell, Adenoma X

C-cell, Carcinoma

GENERAL BODY SYSTEM

Tissue NOS +

GENITAL SYSTEM

Epididymis +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 12.5 MG/KG	DAY ON TEST																								ANIMAL ID	males (cont...)
	0 2 9 9	0 4 7 7	0 5 1 9	0 5 5 6	0 6 9 3	0 6 0 0	0 6 1 0	0 6 1 0	0 6 1 0	0 6 2 7	0 6 2 6	0 6 6 6	0 6 6 8	0 6 7 7	0 6 7 9	0 6 7 2	0 6 7 2	0 6 7 8	0 6 7 6	0 6 7 6	0 6 7 6	0 6 7 6	0 6 7 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 6 7		

Basal Cell Adenoma  
 Basal Cell Carcinoma  
 Keratoacanthoma X X X  
 Squamous Cell Carcinoma X  
 Subcutaneous Tissue, Fibroma X X  
 Subcutaneous Tissue, Fibroma, Multiple X  
 Subcutaneous Tissue, Fibrosarcoma X  
 Subcutaneous Tissue, Lipoma

MUSCULOSKELETAL SYSTEM

Bone +  
 Osteosarcoma X  
 Maxilla, Squamous Cell Carcinoma, Metastatic, Skin X  
 Skeletal Muscle + +

NERVOUS SYSTEM

Brain +  
 Granular Cell Tumor Benign  
 Peripheral Nerve  
 Spinal Cord

RESPIRATORY SYSTEM

Lung +  
 Alveolar/Bronchiolar Adenoma  
 Squamous Cell Carcinoma, Metastatic, Skin X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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





TDMS No. 99037 - 05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010

Time Report Requested: 13:01:01

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

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>47</b>
Intestine Large, Rectum	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>47</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>47</b>
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Hepatocellular Adenoma																									<b>1</b>
Mesentery		+																+	+					+	<b>10</b>
Oral Mucosa																									<b>1</b>
Pharyngeal, Squamous Cell Carcinoma																									<b>1</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>

**CARDIOVASCULAR SYSTEM**

- \* .. Total animals with tissue examined microscopically; Total animals with tumor
- + .. Tissue examined microscopically
- X .. Lesion present
- I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 12.5 MG/KG	DAY ON TEST																								* TOTALS
	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729		
ANIMAL ID	0055	0057	0058	0059	0063	0069	0075	0078	0079	0084	0087	0089	0091	0093	0094	0095	0096	0098	0099	0100	0101	0102	0106	0108	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>ENDOCRINE SYSTEM</b>																									
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pheochromocytoma Benign				X	X		X											X						6	
Bilateral, Pheochromocytoma Benign													X											2	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma						X																X		2	
Carcinoma		X					X																	2	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	49	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Adenoma	X		X	X	X	X	X				X	X		X				X		X	X	X	X	20	
Pars Distalis, Adenoma, Multiple		X																						1	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
C-cell, Adenoma																								1	
C-cell, Carcinoma																		X						1	
<b>GENERAL BODY SYSTEM</b>																									
Tissue NOS																								1	
<b>GENITAL SYSTEM</b>																									
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 12.5 MG/KG	DAY ON TEST																								* TOTALS
	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	
ANIMAL ID	0055	0057	0058	0059	0063	0069	0075	0078	0079	0084	0087	0089	0091	0093	0094	0095	0096	0098	0099	0099	0099	0099	0099	0099	

Penis																									1
Preputial Gland Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	49 1
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Seminal Vesicle Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Bilateral, Interstitial Cell, Adenoma	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	34
Interstitial Cell, Adenoma																						X	X	X	10

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node																									14
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	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	47
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 12.5 MG/KG	DAY ON TEST																									* TOTALS
	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29	07 29		
ANIMAL ID	0055	0057	0058	0059	0063	0069	0075	0078	0079	0084	0087	0089	0091	0093	0094	0095	0096	0098	0099	0100	0101	0102	0106	0108	0113	

Basal Cell Adenoma									X																	2	
Basal Cell Carcinoma																									X		1
Keratoacanthoma																											3
Squamous Cell Carcinoma																											1
Subcutaneous Tissue, Fibroma					X		X						X				X										10
Subcutaneous Tissue, Fibroma, Multiple			X																								2
Subcutaneous Tissue, Fibrosarcoma																											1
Subcutaneous Tissue, Lipoma																							X				1

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Osteosarcoma																											1
Maxilla, Squamous Cell Carcinoma, Metastatic, Skin																											1
Skeletal Muscle	+																								+	4	

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Granular Cell Tumor Benign			X																								1
Peripheral Nerve																									+		1
Spinal Cord																									+		1

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Alveolar/Bronchiolar Adenoma																								X			1
Squamous Cell Carcinoma, Metastatic, Skin																											1

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 12.5 MG/KG	DAY ON TEST																								* TOTALS		
	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729			
ANIMAL ID	0055	0057	0058	0059	0063	0069	0075	0078	0079	0084	0087	0089	0091	0093	0094	0095	0096	0098	0099	0100	0101	0102	0106	0108	0113		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
<b>SPECIAL SENSES SYSTEM</b>																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Lacrimal Gland																									2		
Zymbal's Gland Carcinoma																									1 1		
<b>URINARY SYSTEM</b>																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Renal Tubule, Carcinoma																									1		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
<b>SYSTEMIC LESIONS</b>																											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Leukemia Mononuclear			X			X						X	X					X			X		X		18		
Lymphoma Malignant																									2		
Mesothelioma Malignant																									1		

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

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

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	+	A	A	+	+	A	A	+	+
Intestine Large, Rectum	+	+	+	+	+	M	A	+	+	+	A	+	+	+	A	A	+	+	A	+	+	+	+	A	+
Intestine Small, Duodenum	+	A	A	+	+	A	A	A	+	+	A	+	+	+	A	+	+	+	A	A	+	+	A	A	+
Intestine Small, Ileum	A	A	A	+	+	A	A	A	A	+	A	+	A	+	A	A	A	+	A	A	+	+	A	A	+
Intestine Small, Jejunum	+	A	A	+	+	A	A	+	A	+	A	+	A	+	A	A	A	+	A	A	+	+	A	A	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesentery	+		+											+		+									+
Pancreas Mixed Tumor Benign	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		X	+	+
Salivary Glands Schwannoma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

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

Schwannoma Malignant, Metastatic, Tissue Nos

X

ENDOCRINE SYSTEM

Adrenal Cortex

+ + + + + + + + + + + + + + A + + + + + + + + + +

Adrenal Medulla

+ + + + + + + + + + M + + + + + + + + + + + + + +

Pheochromocytoma Benign  
 Pheochromocytoma Malignant  
 Bilateral, Pheochromocytoma Benign

X X

Islets, Pancreatic

+ +

Adenoma

Parathyroid Gland

+ + + I + + + + + + M + + + + + + + + + + + + + +

Pituitary Gland

+ +

Pars Distalis, Adenoma

X X X X X X X X

Thyroid Gland

+ + A + + A A A + + + + + + + + A + + A + + + A +

C-cell, Adenoma

X X

Follicular Cell, Adenoma

X

GENERAL BODY SYSTEM

Tissue NOS

+

Schwannoma Malignant

X

GENITAL SYSTEM

Epididymis

+ +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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 |
|------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS MALE</b> |           | 1 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                              |           | 6 | 7 | 1 | 9 | 0 | 0 | 5 | 8 | 8 | 0 | 3 | 4 | 9 | 9 | 0 | 1 | 1 | 3 | 3 | 3 | 5 | 5 | 5 | 6 |
|                              |           | 3 | 0 | 3 | 4 | 4 | 7 | 0 | 5 | 5 | 0 | 2 | 0 | 8 | 9 | 8 | 2 | 5 | 1 | 5 | 7 | 2 | 2 | 5 | 3 |
| <b>25 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 |
|                              |           | 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 | 0 | 4 | 4 | 2 | 1 | 2 | 2 | 3 | 0 | 2 | 3 | 1 | 3 | 1 | 4 | 2 | 3 | 0 | 4 | 1 | 1 | 0 | 4 |
|                              | 8         | 2 | 6 | 3 | 7 | 2 | 0 | 2 | 2 | 1 | 6 | 3 | 6 | 1 | 4 | 4 | 1 | 9 | 3 | 9 | 3 | 5 | 5 | 2 |   |
|                              |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

males  
(cont...)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Preputial Gland Adenoma Carcinoma                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle Sarcoma, Metastatic, Kidney                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes Bilateral, Interstitial Cell, Adenoma Interstitial Cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |

**HEMATOPOIETIC SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node             |   |   |   |   |   |   |   |   |   | + |   | + |   |   |   |   |   |   |   |   |   |   |   | + |
| 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 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Thymus                 | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |

**INTEGUMENTARY SYSTEM**

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Adenoma Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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



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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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>1<br>6<br>3      | 0<br>2<br>7<br>0      | 0<br>3<br>1<br>3      | 0<br>3<br>9<br>4      | 0<br>4<br>0<br>4      | 0<br>4<br>0<br>7      | 0<br>4<br>5<br>0      | 0<br>4<br>8<br>5      | 0<br>4<br>8<br>5      | 0<br>5<br>0<br>0      | 0<br>5<br>3<br>2      | 0<br>5<br>4<br>0      | 0<br>5<br>9<br>8      | 0<br>5<br>9<br>9      | 0<br>6<br>0<br>8      | 0<br>6<br>1<br>2      | 0<br>6<br>1<br>5      | 0<br>6<br>3<br>3      | 0<br>6<br>3<br>7      | 0<br>6<br>5<br>2      | 0<br>6<br>5<br>2      | 0<br>6<br>5<br>5      | 0<br>6<br>5<br>9      | 0<br>6<br>6<br>3      |                       |           |                    |
| 25 MG/KG              | 0<br>0<br>1<br>2<br>8 | 0<br>0<br>1<br>0<br>2 | 0<br>0<br>1<br>4<br>6 | 0<br>0<br>1<br>4<br>3 | 0<br>0<br>1<br>2<br>7 | 0<br>0<br>1<br>2<br>2 | 0<br>0<br>1<br>2<br>2 | 0<br>0<br>1<br>3<br>2 | 0<br>0<br>1<br>0<br>2 | 0<br>0<br>1<br>2<br>1 | 0<br>0<br>1<br>3<br>6 | 0<br>0<br>1<br>1<br>3 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>4 | 0<br>0<br>1<br>1<br>4 | 0<br>0<br>1<br>2<br>1 | 0<br>0<br>0<br>3<br>9 | 0<br>0<br>0<br>0<br>3 | 0<br>0<br>1<br>1<br>4 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>5 | 0<br>0<br>1<br>1<br>5 | 0<br>0<br>1<br>0<br>2 | 0<br>0<br>1<br>4<br>4 | 0<br>0<br>0<br>0<br>3 |           |                    |

Fibroadenoma

X

Skin

+ +

Keratoacanthoma

Subcutaneous Tissue, Fibroma

X

Subcutaneous Tissue, Fibroma, Multiple

X

Subcutaneous Tissue, Fibrosarcoma

X

MUSCULOSKELETAL SYSTEM

Bone

+ +

Osteosarcoma

X

Schwannoma Malignant, Metastatic, Tissue Nos

X

Skeletal Muscle

+

Chordoma, Metastatic, Uncertain Primary Site

Schwannoma Malignant, Metastatic, Tissue Nos

X

NERVOUS SYSTEM

Brain

+ +

Astrocytoma Malignant

X

RESPIRATORY SYSTEM

Lung

+ +

Alveolar/Bronchiolar Adenoma

X

Alveolar/Bronchiolar Carcinoma

Chordoma, Metastatic, Uncertain Primary Site

Osteosarcoma, Metastatic, Bone

X

Sarcoma, Metastatic, Kidney

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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 |           |                    |
| 1           | 2                     | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 0         | 0                  |
| 6           | 7                     | 1 | 9 | 0 | 0 | 5 | 8 | 8 | 0 | 3 | 4 | 9 | 9 | 0 | 1 | 1 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 0         | 0                  |
| 3           | 0                     | 3 | 4 | 4 | 7 | 0 | 5 | 5 | 0 | 2 | 0 | 8 | 9 | 8 | 2 | 5 | 1 | 5 | 7 | 2 | 2 | 5 | 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 | 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                  |
| 2           | 0                     | 4 | 4 | 2 | 1 | 2 | 2 | 3 | 0 | 2 | 3 | 1 | 3 | 1 | 4 | 2 | 3 | 0 | 4 | 1 | 1 | 0 | 4 | 4 | 0         | 0                  |
| 8           | 2                     | 6 | 3 | 7 | 2 | 0 | 2 | 2 | 1 | 6 | 3 | 6 | 1 | 4 | 4 | 1 | 9 | 3 | 9 | 3 | 5 | 5 | 2 | 0 | 0         | 0                  |

Schwannoma Malignant, Metastatic, Tissue Nos

X

Nose

+ +

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ + A + + + + + + + + + + A + + + + A + + + + +

Harderian Gland

+ +

Lacrimal Gland

Zymbal's Gland Carcinoma

+  
X

URINARY SYSTEM

Kidney

+ + + + + + + + A + + + + + + + A + + + A + + A A +

Sarcoma

X

Renal Tubule, Carcinoma

X

Urinary Bladder Papilloma

+ + + + + + + + + + + M + + + + + + + + + + + +

X

SYSTEMIC LESIONS

Multiple Organ

+ +

Leukemia Mononuclear

X

X

X

X

X

X

X

Lymphoma Malignant

Mesothelioma Malignant

X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

|                              |                 | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|------------------------------|-----------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                              |                 | 0668        | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 |          |
| <b>FISCHER 344 RATS MALE</b> |                 | 0668        | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677     |
|                              | <b>25 MG/KG</b> | 0015        | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011     |
|                              | ANIMAL ID       | 0015        | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011     |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | A | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Intestine Large, Colon    | A | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33 |
| Intestine Large, Rectum   | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 |
| Intestine Small, Duodenum | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 37 |
| Intestine Small, Ileum    | A | A | + | + | + | + | A | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 30 |
| Intestine Small, Jejunum  | A | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mesentery                 |   |   |   | + |   |   |   |   |   |   |   |   |   | + | + | + |   |   |   |   | + | + | 11 |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mixed Tumor Benign        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Schwannoma Malignant      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular        | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

**CARDIOVASCULAR SYSTEM**

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS MALE<br>25 MG/KG     | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |  |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
|                                       | 0668        | 0677 | 0677 | 0689 | 0672 | 0676 | 0678 | 0678 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 | 0679 |          |  |
| ANIMAL ID                             | 0015        | 0011 | 0011 | 0012 | 0013 | 0017 | 0014 | 0018 | 0018 | 0019 | 0010 | 0018 | 0019 | 0017 | 0018 | 0011 | 0013 | 0014 | 0014 | 0016 | 0013 | 0019 | 0010 | 0014 | 0016 |          |  |
| Preputial Gland                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |  |
| Adenoma                               |             |      |      |      |      |      |      | X    |      |      |      | X    |      |      |      |      |      |      |      | X    |      |      |      |      | 4    |          |  |
| Carcinoma                             |             |      | X    |      |      |      |      |      |      |      |      | X    |      | X    |      |      |      |      |      |      | X    |      |      |      | 5    |          |  |
| Prostate                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |  |
| Seminal Vesicle                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |  |
| Sarcoma, Metastatic, Kidney           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |          |  |
| Testes                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |  |
| Bilateral, Interstitial Cell, Adenoma |             | X    | X    | X    | X    | X    | X    |      | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | 30   |          |  |
| Interstitial Cell, Adenoma            | X           |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | 10   |          |  |
| <b>HEMATOPOIETIC SYSTEM</b>           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| Bone Marrow                           | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |  |
| Lymph Node                            |             |      |      | +    |      | +    | +    | +    |      |      |      | +    |      |      |      | +    |      |      | +    |      | +    |      |      | +    | 12   |          |  |
| 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    | 0    |          |  |
| Lymph Node, Mesenteric                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50   |          |  |
| Spleen                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49   |          |  |
| Thymus                                | +           | +    | +    | +    | +    | +    | I    | +    | +    | +    | I    | +    | +    | +    | +    | +    | +    | +    | +    | I    | +    | +    | +    | +    | 45   |          |  |
| <b>INTEGUMENTARY SYSTEM</b>           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| Mammary Gland                         | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | I    | +    | +    | 49       |  |
| Adenoma                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      | 1    |          |  |
| Carcinoma                             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | 1    |          |  |

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| FISCHER 344 RATS MALE<br>25 MG/KG            | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |  |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--|
|  | 0668        | 0677   | 0677   | 0678   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   |          |  |
| ANIMAL ID                                    | 001500      | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 |          |  |
| Fibroadenoma                                 |             |        |        |        |        | X      |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        | 3        |  |
| Skin   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| Keratoacanthoma                              |             |        |        |        |        |        |        |        |        |        |        |        | X      | X      |        |        |        |        |        |        |        |        |        |        |        | 2        |  |
| Subcutaneous Tissue, Fibroma                 |             |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        | X      |        |        |        | X      |        | X      |        | 5        |  |
| Subcutaneous Tissue, Fibroma, Multiple       |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Subcutaneous Tissue, Fibrosarcoma            |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        | 2        |  |
| <b>MUSCULOSKELETAL SYSTEM</b>                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |  |
| Bone   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| Osteosarcoma                                 |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Schwannoma Malignant, Metastatic, Tissue Nos |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Skeletal Muscle                              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 2        |  |
| Chordoma, Metastatic, Uncertain Primary Site |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Schwannoma Malignant, Metastatic, Tissue Nos |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| <b>NERVOUS SYSTEM</b>                        |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |  |
| Brain  | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| Astrocytoma Malignant                        |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| <b>RESPIRATORY SYSTEM</b>                    |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |  |
| Lung   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| Alveolar/Bronchiolar Adenoma                 |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Alveolar/Bronchiolar Carcinoma               |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        | 1        |  |
| Chordoma, Metastatic, Uncertain Primary Site |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Osteosarcoma, Metastatic, Bone               |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Sarcoma, Metastatic, Kidney                  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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alpha/beta Thujone mixture  
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 Lab: SRI

| DAY ON TEST                                  | FISCHER 344 RATS MALE |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |  |
|--|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--|
|  | 0668                  | 0677   | 0677   | 0678   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   | 0679   |          |  |
| ANIMAL ID                                    | 001500                | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 | 001500 |          |  |
| Schwannoma Malignant, Metastatic, Tissue Nos |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Nose   | +                     | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| Trachea                                      | +                     | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| <b>SPECIAL SENSES SYSTEM</b>                 |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |  |
| Eye  | +                     | A      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 46       |  |
| Harderian Gland                              | +                     | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| Lacrimal Gland                               |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Zymbal's Gland Carcinoma                     |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| <b>URINARY SYSTEM</b>                        |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |  |
| Kidney                                       | +                     | A      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 44       |  |
| Sarcoma                                      |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Renal Tubule, Carcinoma                      |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Urinary Bladder Papilloma                    | +                     | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 49       |  |
| <b>SYSTEMIC LESIONS</b>                      |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |  |
| Multiple Organ                               | +                     | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| Leukemia Mononuclear                         |                       | X      | X      | X      |        | X      | X      | X      |        |        |        |        | X      |        |        |        | X      |        |        |        | X      | X      |        | X      | 18       |  |
| Lymphoma Malignant                           |                       |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Mesothelioma Malignant                       |                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        | 2        |  |

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 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically









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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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>9<br>4      | 0<br>1<br>3<br>5 | 0<br>1<br>3<br>5 | 0<br>1<br>5<br>7 | 0<br>1<br>7<br>8 | 0<br>1<br>9<br>2 | 0<br>2<br>0<br>5 | 0<br>2<br>1<br>1 | 0<br>2<br>1<br>2 | 0<br>2<br>1<br>3 | 0<br>2<br>2<br>3 | 0<br>2<br>3<br>5 | 0<br>2<br>3<br>9 | 0<br>2<br>4<br>3 | 0<br>2<br>4<br>6 | 0<br>2<br>5<br>7 | 0<br>2<br>6<br>9 | 0<br>2<br>8<br>1 | 0<br>2<br>8<br>1 | 0<br>3<br>9<br>5 | 0<br>3<br>0<br>9 | 0<br>3<br>0<br>5 | 0<br>3<br>2<br>3 | 0<br>3<br>3<br>0 |                  |                    |
| 50 MG/KG              | 0<br>1<br>5<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>9<br>3 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>9 | 0<br>0<br>1<br>6 | 0<br>0<br>7<br>2 | 0<br>0<br>8<br>5 | 0<br>0<br>7<br>8 | 0<br>0<br>8<br>8 | 0<br>0<br>7<br>8 | 0<br>0<br>8<br>8 | 0<br>0<br>9<br>9 | 0<br>0<br>7<br>3 | 0<br>0<br>5<br>5 | 0<br>0<br>8<br>7 | 0<br>0<br>6<br>1 | 0<br>0<br>8<br>0 | 0<br>0<br>8<br>1 | 0<br>0<br>7<br>6 | 0<br>0<br>5<br>9 | 0<br>0<br>8<br>9 | 0<br>0<br>7<br>1 | 0<br>0<br>9<br>0 | 0<br>0<br>6<br>5 |                    |

MUSCULOSKELETAL SYSTEM

Bone +

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

Lung +

Nose +

Trachea +

SPECIAL SENSES SYSTEM

Eye +

Harderian Gland +

URINARY SYSTEM

Kidney +

Urinary Bladder +

SYSTEMIC LESIONS

Multiple Organ +  
 Mesothelioma Malignant X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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>3<br>3<br>0      | 0<br>3<br>3<br>0      | 0<br>3<br>3<br>7      | 0<br>3<br>3<br>9      | 0<br>3<br>4<br>0      | 0<br>3<br>5<br>9      | 0<br>3<br>7<br>4      | 0<br>3<br>7<br>9      | 0<br>3<br>7<br>9      | 0<br>3<br>8<br>2      | 0<br>4<br>1<br>4      | 0<br>4<br>2<br>2      | 0<br>4<br>3<br>6      | 0<br>4<br>6<br>3      | 0<br>5<br>7<br>0      | 0<br>5<br>1<br>5      | 0<br>5<br>1<br>9      | 0<br>5<br>6<br>8      | 0<br>5<br>9<br>0      | 0<br>6<br>0<br>3      | 0<br>6<br>0<br>3      | 0<br>6<br>1<br>0      | 0<br>6<br>6<br>7      | 0<br>7<br>6<br>4      |                       |          |
| ANIMAL ID                         | 0<br>0<br>1<br>7<br>7 | 0<br>0<br>2<br>0<br>0 | 0<br>0<br>1<br>9<br>2 | 0<br>0<br>1<br>6<br>7 | 0<br>0<br>1<br>9<br>4 | 0<br>0<br>1<br>5<br>6 | 0<br>0<br>1<br>6<br>9 | 0<br>0<br>1<br>6<br>4 | 0<br>0<br>1<br>9<br>8 | 0<br>0<br>1<br>7<br>4 | 0<br>0<br>1<br>8<br>4 | 0<br>0<br>1<br>5<br>4 | 0<br>0<br>1<br>9<br>3 | 0<br>0<br>1<br>9<br>6 | 0<br>0<br>1<br>5<br>8 | 0<br>0<br>1<br>5<br>4 | 0<br>0<br>1<br>6<br>8 | 0<br>0<br>1<br>6<br>6 | 0<br>0<br>1<br>8<br>2 | 0<br>0<br>1<br>8<br>3 | 0<br>0<br>1<br>5<br>1 | 0<br>0<br>1<br>5<br>7 | 0<br>0<br>1<br>7<br>5 | 0<br>0<br>1<br>6<br>3 | 0<br>0<br>1<br>9<br>0 |          |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Large, Cecum                 | + | + | + | A | + | + | + | + | A | + | + | + | A | + | A | + | + | + | + | + | + | + | + | A | + | 39      |
| Intestine Large, Colon<br>Leiomyoma    | + | A | + | A | A | A | A | A | + | A | A | A | A | + | A | + | A | A | A | A | + | + | A | X | + | 15<br>1 |
| Intestine Large, Rectum                | + | + | M | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | 42      |
| Intestine Small, Duodenum              | + | A | + | A | + | + | + | + | + | + | A | A | + | A | + | + | + | + | A | A | A | + | + | A | + | 33      |
| Intestine Small, Ileum                 | + | A | + | A | + | A | M | A | A | + | A | A | M | A | A | + | A | A | A | A | + | A | A | + | A | 16      |
| Intestine Small, Jejunum               | + | + | + | A | A | + | + | + | A | + | A | A | A | A | + | + | A | A | A | A | + | A | + | A | + | 25      |
| Liver                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Mesentery                              |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   | + | 4       |
| Oral Mucosa<br>Squamous Cell Papilloma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 1<br>1  |
| Pancreas                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Salivary Glands                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Stomach, Forestomach                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Stomach, Glandular                     | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 48      |

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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>3<br>3<br>0      | 0<br>3<br>3<br>0      | 0<br>3<br>3<br>7      | 0<br>3<br>3<br>9      | 0<br>3<br>4<br>0      | 0<br>3<br>5<br>9      | 0<br>3<br>7<br>4      | 0<br>3<br>7<br>9      | 0<br>3<br>7<br>9      | 0<br>3<br>8<br>2      | 0<br>4<br>1<br>4      | 0<br>4<br>2<br>2      | 0<br>4<br>3<br>6      | 0<br>4<br>6<br>3      | 0<br>5<br>7<br>0      | 0<br>5<br>1<br>5      | 0<br>5<br>6<br>8      | 0<br>5<br>9<br>0      | 0<br>5<br>9<br>0      | 0<br>6<br>0<br>3      | 0<br>6<br>0<br>3      | 0<br>6<br>1<br>0      | 0<br>6<br>6<br>7      | 0<br>7<br>6<br>4      |                       |          |
| ANIMAL ID                         | 0<br>0<br>1<br>7<br>7 | 0<br>0<br>2<br>1<br>0 | 0<br>0<br>1<br>9<br>2 | 0<br>0<br>1<br>6<br>7 | 0<br>0<br>1<br>9<br>4 | 0<br>0<br>1<br>5<br>6 | 0<br>0<br>1<br>6<br>9 | 0<br>0<br>1<br>6<br>4 | 0<br>0<br>1<br>9<br>8 | 0<br>0<br>1<br>7<br>4 | 0<br>0<br>1<br>8<br>4 | 0<br>0<br>1<br>5<br>4 | 0<br>0<br>1<br>9<br>3 | 0<br>0<br>1<br>9<br>6 | 0<br>0<br>1<br>5<br>8 | 0<br>0<br>1<br>5<br>4 | 0<br>0<br>1<br>6<br>8 | 0<br>0<br>1<br>8<br>6 | 0<br>0<br>1<br>8<br>2 | 0<br>0<br>1<br>8<br>3 | 0<br>0<br>1<br>5<br>1 | 0<br>0<br>1<br>5<br>7 | 0<br>0<br>1<br>7<br>5 | 0<br>0<br>1<br>6<br>3 | 0<br>0<br>1<br>9<br>0 |          |

Blood Vessel 1

Heart + 50

ENDOCRINE SYSTEM

Adrenal Cortex + 50

Adrenal Medulla + + + + + + + + + + + + M + + + + + + + + + + + + 49

Islets, Pancreatic + 50

Parathyroid Gland + + + + + + + + M + + + + + + + + + + + + + + + 49

Pituitary Gland Pars Distalis, Adenoma + X X 49  
 4

Thyroid Gland C-cell, Adenoma + + + + + + + + + + + A + + A + + + + A + + X A 45  
 1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland 1

Epididymis + 50

Penis 1

Preputial Gland + 50

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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 |          |
| 3           | 3                     | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 7 |          |
| 3           | 3                     | 3 | 3 | 4 | 5 | 7 | 7 | 7 | 8 | 1 | 2 | 3 | 6 | 7 | 1 | 1 | 6 | 9 | 9 | 0 | 0 | 1 | 6 | 1 |          |
| 0           | 0                     | 0 | 7 | 9 | 0 | 9 | 4 | 9 | 2 | 4 | 2 | 6 | 3 | 0 | 5 | 9 | 8 | 0 | 0 | 3 | 3 | 0 | 7 | 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 |          |
| 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 |          |
| 7           | 0                     | 9 | 6 | 9 | 5 | 6 | 6 | 9 | 7 | 8 | 5 | 9 | 9 | 5 | 5 | 6 | 6 | 8 | 8 | 5 | 5 | 7 | 6 | 9 |          |
| 7           | 0                     | 2 | 7 | 4 | 6 | 9 | 4 | 8 | 4 | 4 | 3 | 6 | 1 | 8 | 4 | 8 | 6 | 2 | 3 | 1 | 7 | 5 | 3 | 0 | * TOTALS |

**MUSCULOSKELETAL SYSTEM**

Bone + 50

**NERVOUS SYSTEM**

Brain + 50

**RESPIRATORY SYSTEM**

Lung + 50

Nose + 50

Trachea + 50

**SPECIAL SENSES SYSTEM**

Eye + + + + I + + + + + + A + + + + + + + + + + + + 48

Harderian Gland + 50

**URINARY SYSTEM**

Kidney + A 49

Urinary Bladder + 50

**SYSTEMIC LESIONS**

Multiple Organ + 50

Mesothelioma Malignant 1

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/11/2010  
**Time Report Requested:** 13:01:01  
**First Dose M/F:** 06/09/03 / 06/09/03  
**Lab:** SRI

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

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\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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



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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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<br>4<br>5<br>2 | 0<br>4<br>6<br>2 | 0<br>4<br>9<br>9 | 0<br>5<br>4<br>5 | 0<br>5<br>4<br>7 | 0<br>5<br>6<br>6 | 0<br>5<br>7<br>9 | 0<br>6<br>2<br>3 | 0<br>6<br>3<br>1 | 0<br>6<br>5<br>2 | 0<br>6<br>6<br>9 | 0<br>6<br>7<br>2 | 0<br>6<br>7<br>7 | 0<br>6<br>7<br>7 | 0<br>6<br>8<br>9 | 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>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 |                  |           |                      |
| 0 MG/KG                 | 0<br>0<br>4<br>4 | 0<br>0<br>0<br>3 | 0<br>0<br>0<br>4 | 0<br>0<br>0<br>3 | 0<br>0<br>0<br>4 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>3 | 0<br>0<br>0<br>3 | 0<br>0<br>0<br>4 | 0<br>0<br>0<br>3 | 0<br>0<br>0<br>5 | 0<br>0<br>0<br>4 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>3 | 0<br>0<br>0<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>1 | 0<br>0<br>0<br>2 | 0<br>0<br>0<br>2 | 0<br>0<br>0<br>2 | 0<br>0<br>0<br>2 | 0<br>0<br>0<br>2 | 0<br>0<br>0<br>0 |           |                      |

ALIMENTARY SYSTEM

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum             | + | A | A | A | A | A | M | + | + | + | A | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon             | + | A | A | A | A | A | + | A | + | + | A | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Adenoma | + | A | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + |
| Intestine Small, Duodenum          | + | A | A | A | A | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum             | + | A | A | A | A | A | + | A | + | + | A | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum           | + | A | A | A | A | A | + | A | + | + | A | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Liver                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery                          |   |   |   |   |   |   |   | + |   | + | + |   | + | + |   |   |   |   | + |   |   | + | + |   |
| Pancreas                           | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular                 | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tongue                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

CARDIOVASCULAR SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

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

Blood Vessel

+

Heart

+ +

**ENDOCRINE SYSTEM**

Adrenal Cortex  
Adenoma

+ + A + A A +  
 X

Adrenal Medulla  
Pheochromocytoma Benign  
Pheochromocytoma Complex

+ + + + A A +

Islets, Pancreatic  
Adenoma

+ + + + A +

Parathyroid Gland

+ + + + M + + + + + M + + + + + + + + + + + + + + +

Pituitary Gland  
Pars Distalis, Adenoma  
Pars Distalis, Carcinoma  
Pars Distalis, Ganglioneuroma  
Pars Intermedia, Adenoma

+  
 X

Thyroid Gland  
Bilateral, C-cell, Adenoma  
C-cell, Adenoma  
C-cell, Carcinoma

+ A A A M + + A + + A A A + + + + + + + + + + + + + + +  
 X

**GENERAL BODY SYSTEM**

Tissue NOS

+

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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<br>4<br>5<br>2 | 0<br>4<br>6<br>2 | 0<br>4<br>9<br>9 | 0<br>5<br>4<br>5 | 0<br>5<br>4<br>7 | 0<br>5<br>6<br>6 | 0<br>5<br>7<br>9 | 0<br>6<br>2<br>3 | 0<br>6<br>3<br>1 | 0<br>6<br>5<br>2 | 0<br>6<br>6<br>9 | 0<br>6<br>7<br>2 | 0<br>6<br>7<br>7 | 0<br>6<br>8<br>9 | 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>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 MG/KG                 | 0<br>0<br>4<br>4 | 0<br>0<br>4<br>3 | 0<br>0<br>4<br>2 | 0<br>0<br>3<br>1 | 0<br>0<br>4<br>5 | 0<br>0<br>0<br>7 | 0<br>0<br>3<br>9 | 0<br>0<br>3<br>3 | 0<br>0<br>4<br>0 | 0<br>0<br>3<br>2 | 0<br>0<br>5<br>0 | 0<br>0<br>4<br>1 | 0<br>0<br>3<br>5 | 0<br>0<br>0<br>8 | 0<br>0<br>1<br>6 | 0<br>0<br>0<br>8 | 0<br>0<br>0<br>9 | 0<br>0<br>1<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>4 |  |           |                      |

GENITAL SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland<br>Adenoma               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Adenoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ovary<br>Granulosa Cell Tumor Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus<br>Polyp Stromal                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Vagina                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

HEMATOPOIETIC SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node<br>Mediastinal, Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen  | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus  | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>0 MG/KG | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |                       |                      |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|-----------------------|----------------------|
|                                    | 0<br>4<br>5<br>2 | 0<br>4<br>6<br>2 | 0<br>4<br>9<br>9 | 0<br>5<br>4<br>5 | 0<br>5<br>4<br>7 | 0<br>5<br>6<br>6 | 0<br>5<br>7<br>9 | 0<br>6<br>2<br>3 | 0<br>6<br>3<br>1 | 0<br>6<br>5<br>2 | 0<br>6<br>6<br>9 | 0<br>6<br>7<br>2 | 0<br>6<br>7<br>7 | 0<br>6<br>8<br>9 | 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>7<br>3<br>0 |           |                      | 0<br>7<br>3<br>0      |                      |
| Mammary Gland                      | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | 0<br>0<br>2<br>4<br>4 | females<br>(cont...) |
| Adenoma                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      | 0<br>0<br>2<br>4<br>4 |                      |
| Carcinoma                          |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      | 0<br>0<br>2<br>4<br>4 |                      |
| Fibroadenoma                       |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      | 0<br>0<br>2<br>4<br>4 |                      |
| Fibroadenoma, Multiple             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  | X                |                  |                  |                  |                  |           |                      | 0<br>0<br>2<br>4<br>4 |                      |
| Fibroma                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  | X                |                  |                  |                  | X         | X                    | 0<br>0<br>2<br>4<br>4 |                      |
| Skin                               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | 0<br>0<br>2<br>4<br>4 |                      |
| Basal Cell Adenoma                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      | 0<br>0<br>2<br>4<br>4 |                      |
| Basal Cell Carcinoma               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |           | X                    | 0<br>0<br>2<br>4<br>4 |                      |
| Subcutaneous Tissue, Fibroma       |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      | 0<br>0<br>2<br>4<br>4 |                      |
| <b>MUSCULOSKELETAL SYSTEM</b>      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                       |                      |
| Bone                               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | 0<br>0<br>2<br>4<br>4 |                      |
| Osteosarcoma                       | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      | 0<br>0<br>2<br>4<br>4 |                      |
| <b>NERVOUS SYSTEM</b>              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                       |                      |
| Brain                              | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | 0<br>0<br>2<br>4<br>4 |                      |
| Glioma Malignant                   |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      | 0<br>0<br>2<br>4<br>4 |                      |
| <b>RESPIRATORY SYSTEM</b>          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                       |                      |
| Lung                               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | 0<br>0<br>2<br>4<br>4 |                      |
| Nose                               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | 0<br>0<br>2<br>4<br>4 |                      |
| Trachea                            | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | 0<br>0<br>2<br>4<br>4 |                      |
| <b>SPECIAL SENSES SYSTEM</b>       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                       |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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<br>4<br>5<br>2      | 0<br>4<br>6<br>2      | 0<br>4<br>9<br>9      | 0<br>5<br>4<br>5      | 0<br>5<br>4<br>7      | 0<br>5<br>6<br>6      | 0<br>5<br>7<br>9      | 0<br>6<br>2<br>3      | 0<br>6<br>3<br>1      | 0<br>6<br>5<br>2      | 0<br>6<br>6<br>9      | 0<br>6<br>7<br>2      | 0<br>6<br>7<br>7      | 0<br>6<br>7<br>7      | 0<br>6<br>8<br>9      | 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>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 MG/KG                 | 0<br>0<br>2<br>4<br>4 | 0<br>0<br>0<br>4<br>3 | 0<br>0<br>0<br>4<br>2 | 0<br>0<br>0<br>3<br>1 | 0<br>0<br>0<br>4<br>5 | 0<br>0<br>0<br>0<br>7 | 0<br>0<br>0<br>3<br>9 | 0<br>0<br>0<br>3<br>0 | 0<br>0<br>0<br>4<br>0 | 0<br>0<br>0<br>3<br>2 | 0<br>0<br>0<br>3<br>0 | 0<br>0<br>0<br>5<br>0 | 0<br>0<br>0<br>4<br>1 | 0<br>0<br>0<br>0<br>5 | 0<br>0<br>0<br>3<br>5 | 0<br>0<br>0<br>1<br>8 | 0<br>0<br>0<br>0<br>6 | 0<br>0<br>0<br>0<br>8 | 0<br>0<br>0<br>1<br>9 | 0<br>0<br>0<br>2<br>0 | 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>4 |                      |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye             | + | A | A | + | A | A | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney<br>Mesenchymal Tumor Malignant | + | A | + | A | A | + | + | A | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Ureter                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Urinary Bladder                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

SYSTEMIC LESIONS

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ<br>Leukemia Mononuclear<br>Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   | X |   |   |   |   |   |   | X | X |   | X |   |   |   |   |   |   |   | X |   | X |   |   |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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 | 0 | 0 | 0 |          |  |
| 0 MG/KG                 | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |  |
|                         | 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        |  |
|                         | 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        |  |
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |  |
|                         | 0           | 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        |  |
|                         | 3           | 3 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4        |  |
|                         | 6           | 7 | 8 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9        |  |

**ALIMENTARY SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Large, Cecum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41      |
| Intestine Large, Colon             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41      |
| Intestine Large, Rectum<br>Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46<br>1 |
| Intestine Small, Duodenum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44      |
| Intestine Small, Ileum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41      |
| Intestine Small, Jejunum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41      |
| Liver                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Mesentery                          |   |   |   |   |   |   | + |   |   |   | + |   |   |   | + |   |   | + |   |   |   | + |   |   |   | 13      |
| Pancreas                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Salivary Glands                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Stomach, Forestomach               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Stomach, Glandular                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48      |
| Tongue                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

|              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Blood Vessel |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

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

**ENDOCRINE SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Adrenal Cortex<br>Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47<br>1 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |  |   |   |   |   |              |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|---|---|---|---|--------------|
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Pheochromocytoma Complex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |  | X |  | + | + | + | + | 48<br>2<br>1 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|---|---|---|---|--------------|

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Islets, Pancreatic<br>Adenoma | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | 49<br>1 |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|

|                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                         |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------------|
| Pituitary Gland<br>Pars Distalis, Adenoma<br>Pars Distalis, Carcinoma<br>Pars Distalis, Ganglioneuroma<br>Pars Intermedia, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>25<br>1<br>1<br>1 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------------|

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|
| Thyroid Gland<br>Bilateral, C-cell, Adenoma<br>C-cell, Adenoma<br>C-cell, Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42<br>1<br>3<br>3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|

**GENERAL BODY SYSTEM**

|            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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 |
| 0 MG/KG     | 7                       | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7        | 7 |   |
| ANIMAL ID   | 3                       | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3        | 3 |   |
|             | 0                       | 0 | 0 | 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 |   |
|             | 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 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 4        | 4 |   |
|             | 6                       | 7 | 8 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 5        | 6 |   |
|             |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   | 9 |

**GENITAL SYSTEM**

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma                        |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X | X | X | X |   |   |   | 11 |
| Carcinoma                      |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X |   |   | 2  |
| Bilateral, Adenoma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Ovary                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granulosa Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Uterus                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Polyp Stromal                  |   |   |   |   | X |   | X | X |   |   |   |   | X | X |   | X |   |   |   | X | X | X | 17 |
| Vagina                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7  |
| Mediastinal, Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| 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 | 1  |
| Lymph Node, Mesenteric                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Thymus  | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

**INTEGUMENTARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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>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>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>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>7<br>3<br>1      | 0<br>7<br>3<br>1      |                       | 0<br>7<br>3<br>1      |                       |                       |                       |                       |    |
| ANIMAL ID                          | 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>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>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>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 | 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 |    |
| Mammary Gland                      | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Adenoma                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| Carcinoma                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2  |
| Fibroadenoma                       |                       | X                     |                       | X                     |                       | X                     |                       | X                     |                       | X                     | X                     |                       |                       | X                     |                       |                       | X                     | X                     | X                     |                       |                       |                       |                       |                       | X                     |                       | 16 |
| Fibroadenoma, Multiple             |                       |                       | X                     |                       | X                     |                       |                       |                       |                       |                       | X                     | X                     |                       |                       |                       | X                     |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       | 10 |
| Fibroma                            |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| Skin                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Basal Cell Adenoma                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| Basal Cell Carcinoma               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| Subcutaneous Tissue, Fibroma       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2  |
| <b>MUSCULOSKELETAL SYSTEM</b>      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |    |
| Bone                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Osteosarcoma                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| <b>NERVOUS SYSTEM</b>              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |    |
| Brain                              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Glioma Malignant                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| <b>RESPIRATORY SYSTEM</b>          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |    |
| Lung                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Nose                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Trachea                            | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| <b>SPECIAL SENSES SYSTEM</b>       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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 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 | 0 | 0 | 0 |          |  |  |
| 0 MG/KG                     | 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 |          |  |  |
|                             | 3           | 3 | 3 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 |          |  |  |
|                             | 6           | 7 | 8 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9        |  |  |
| Eye                         | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44       |  |  |
| Harderian Gland             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |  |  |
| <b>URINARY SYSTEM</b>       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |  |  |
| Kidney                      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44       |  |  |
| Mesenchymal Tumor Malignant |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1        |  |  |
| Ureter                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   | 1        |  |  |
| Urinary Bladder             | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |  |  |
| <b>SYSTEMIC LESIONS</b>     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |  |  |
| Multiple Organ              | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |  |  |
| Leukemia Mononuclear        |             |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   | X | X | 10       |  |  |
| Lymphoma Malignant          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | females<br>(cont...) |
|-------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------------------|
|                         | 01          | 04 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 07 | 07 |           |                      |
| 12.5 MG/KG              | 27          | 21 | 22 | 22 | 50 | 00 | 44 | 44 | 60 | 80 | 81 | 30 | 66 | 66 | 88 | 88 | 88 | 22 | 33 | 33 | 33 | 33 | 33        |                      |
|                         | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00        |                      |
|                         | 25          | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22        |                      |
|                         | 58          | 54 | 80 | 91 | 87 | 89 | 66 | 99 | 73 | 55 | 57 | 92 | 63 | 65 | 96 | 55 | 95 | 68 | 51 | 52 | 53 | 67 | 69        |                      |

ALIMENTARY SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum    | + | A | A | + | + | + | + | + | A | A | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon    | A | A | A | + | + | + | + | + | A | A | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | A | A | + | + | + | + | + | A | A | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | A | A | + | + | + | + | + | A | A | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum    | A | A | A | + | + | + | A | + | A | A | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum  | A | A | A | + | + | + | A | + | A | A | A | A | + | + | + | + | + | + | + | + | + | + | + |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                 |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   | + | + |   |   | + |   |   |   |
| Oral Mucosa               |   |   |   |   |   |   |   | + |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                  | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular        | + | A | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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>1<br>2<br>7 | 0<br>4<br>1<br>2 | 0<br>4<br>2<br>2 | 0<br>4<br>5<br>2 | 0<br>5<br>0<br>8 | 0<br>5<br>0<br>8 | 0<br>5<br>4<br>0 | 0<br>5<br>4<br>0 | 0<br>5<br>6<br>8 | 0<br>5<br>6<br>1 | 0<br>6<br>0<br>3 | 0<br>6<br>6<br>0 | 0<br>6<br>6<br>3 | 0<br>6<br>8<br>8 | 0<br>6<br>8<br>9 | 0<br>7<br>2<br>1 | 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>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0      |           |                      |
|                                       | 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>2<br>5<br>8 |           |                      |

Tongue + + +  
 Tooth +

**CARDIOVASCULAR SYSTEM**

Heart +

**ENDOCRINE SYSTEM**

Adrenal Cortex Adenoma + A +  
 Adrenal Medulla +  
 Islets, Pancreatic + + + + + + + + + A + + + + + + + + + + + + + +  
 Parathyroid Gland +  
 Pituitary Gland Pars Distalis, Adenoma I +  
 Thyroid Gland C-cell, Adenoma + A A + + + + + + + A A + + + + + + + + + + + + + +  
 Thyroid Gland C-cell, Carcinoma

**GENERAL BODY SYSTEM**

Tissue NOS +  
 Schwannoma Malignant X

**GENITAL SYSTEM**

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



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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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...) |
|---------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------------------|
|                                       | 01          | 04 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 |           |                      |
|                                       | 2           | 1  | 2  | 2  | 5  | 0  | 0  | 4  | 4  | 6  | 0  | 0  | 6  | 6  | 8  | 8  | 8  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  |           |                      |
|                                       | 7           | 2  | 2  | 2  | 8  | 8  | 0  | 0  | 8  | 1  | 3  | 0  | 3  | 8  | 9  | 9  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |           |                      |
|                                       | 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 |           |                      |
|                                       | 22          | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |           |                      |
|                                       | 55          | 55 | 88 | 99 | 88 | 88 | 66 | 99 | 77 | 55 | 55 | 99 | 66 | 66 | 55 | 99 | 66 | 55 | 55 | 55 | 66 | 66 | 77 | 77 | 77 |           |                      |
|                                       | 88          | 44 | 00 | 11 | 77 | 99 | 66 | 99 | 33 | 55 | 77 | 22 | 33 | 55 | 66 | 55 | 88 | 11 | 22 | 33 | 77 | 99 | 00 | 66 | 77 |           |                      |

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adenoma                      |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                    |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma                 |   |   |   |   |   | X | X |   |   | X | X | X | X | X | X |   |   |   | X | X |   |   |   |   | X |
| Fibroadenoma, Multiple       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X | X | X |   |   |
| Skin                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Keratoacanthoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Neural Crest Tumor           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

|                              |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Alveolar/Bronchiolar Adenoma |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sarcoma, Metastatic, Uterus  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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

SPECIAL SENSES SYSTEM

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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>1<br>2<br>7 | 0<br>4<br>1<br>2 | 0<br>4<br>2<br>2 | 0<br>4<br>5<br>2 | 0<br>5<br>0<br>8 | 0<br>5<br>0<br>8 | 0<br>5<br>4<br>0 | 0<br>5<br>4<br>0 | 0<br>5<br>6<br>8 | 0<br>5<br>0<br>1 | 0<br>6<br>0<br>3 | 0<br>6<br>6<br>0 | 0<br>6<br>6<br>6 | 0<br>6<br>8<br>8 | 0<br>6<br>8<br>9 | 0<br>7<br>2<br>1 | 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>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 |                       |                      |                      |
|                                       | 0                | 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>2<br>5<br>8 | females<br>(cont...) |                      |
| Harderian Gland                       | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                  |                       |                      |                      |
| <b>URINARY SYSTEM</b>                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       |                      |                      |
| Kidney                                | +                | +                | A                | +                | +                | +                | A                | +                | +                | A                | A                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                       |                      |                      |
| Urinary Bladder                       | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                       |                      |                      |
| <b>SYSTEMIC LESIONS</b>               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       |                      |                      |
| Multiple Organ                        | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                       |                      |                      |
| Histiocytic Sarcoma                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       |                      |                      |
| Leukemia Mononuclear                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                | X                |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                       |                      |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
|                         | 0730        | 0730  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  | 0731  |          | 0731  |       |       |       |       |
| 12.5 MG/KG              | 00278       | 00079 | 00059 | 00060 | 00061 | 00062 | 00064 | 00071 | 00072 | 00074 | 00075 | 00078 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00088 | 00089 | 00093    | 00094 | 00096 | 00097 | 00098 | 00099 |

ALIMENTARY SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                 | + |   | + |   |   |   |   |   | + | + |   |   |   |   | + | + |   |   |   |   |   |   |   |   | + |   | 11 |
| Oral Mucosa               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Squamous Cell Papilloma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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





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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 |          |
| ANIMAL ID                             | 0078        | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 | 0079 |          |

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma                     |   | X |   |   |   | X |   |   |   | X | X | X |   | X |   |   |   |   |   |   |   |   |   | 9  |
| Carcinoma                   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Bilateral, Adenoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 1  |
| Ovary                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granulosa Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Uterus                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Polyp Stromal               |   | X | X |   |   |   | X | X |   | X | X |   |   |   | X | X |   | X |   |   | X | X |   | 18 |
| Sarcoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Vagina                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |

**HEMATOPOIETIC SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 8  |
| Lymph Node, Mandibular      | M | + | M | M | M | M | M | M | M | M | + | M | + | M | M | M | M | M | M | M | M | M | M | 4  |
| Lymph Node, Mesenteric      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Thymus                      | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | I | + | + | 45 |
| Sarcoma, Metastatic, Uterus |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Thymoma Benign              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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 |
|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|                                       | 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>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>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>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>7<br>3<br>0      | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>0      |                       |          |
| ANIMAL ID                             | 0<br>0<br>2<br>7<br>8 | 0<br>0<br>2<br>7<br>9 | 0<br>0<br>2<br>5<br>9 | 0<br>0<br>2<br>6<br>0 | 0<br>0<br>2<br>6<br>1 | 0<br>0<br>2<br>6<br>2 | 0<br>0<br>2<br>6<br>4 | 0<br>0<br>2<br>7<br>1 | 0<br>0<br>2<br>7<br>2 | 0<br>0<br>2<br>7<br>4 | 0<br>0<br>2<br>7<br>5 | 0<br>0<br>2<br>7<br>1 | 0<br>0<br>2<br>7<br>2 | 0<br>0<br>2<br>7<br>3 | 0<br>0<br>2<br>7<br>4 | 0<br>0<br>2<br>7<br>5 | 0<br>0<br>2<br>7<br>6 | 0<br>0<br>2<br>7<br>8 | 0<br>0<br>2<br>7<br>0 | 0<br>0<br>2<br>7<br>3 | 0<br>0<br>2<br>7<br>4 | 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 |          |
| Adenoma                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Carcinoma                             | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       | 3                     |          |
| Fibroadenoma                          | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       | X                     | X                     |                       |                       | X                     | X                     |                       |                       |                       | 18                    |          |
| Fibroadenoma, Multiple                |                       | X                     | X                     | X                     |                       |                       |                       | X                     | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       | 10                    |          |
| Skin                                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| Basal Cell Adenoma                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Keratoacanthoma                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Neural Crest Tumor                    |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Subcutaneous Tissue, Fibroma          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| <b>MUSCULOSKELETAL SYSTEM</b>         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Bone                                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| <b>NERVOUS SYSTEM</b>                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Brain                                 | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| <b>RESPIRATORY SYSTEM</b>             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Lung                                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| Alveolar/Bronchiolar Adenoma          |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       | X                     | 3                     |          |
| Sarcoma, Metastatic, Uterus           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Nose                                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| Trachea                               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| <b>SPECIAL SENSES SYSTEM</b>          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Eye                                   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 47                    |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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 |   |
|---------------------------------------|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
|                                       | 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 |
|                                       |             |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7        | 7 |
|                                       |             |  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3        | 3 |
|                                       |             |  | 0 | 0 | 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 | 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        | 3 |
|                                       |             |  | 7 | 7 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9        | 0 |
|                                       |             |  | 8 | 9 | 9 | 0 | 1 | 2 | 4 | 1 | 2 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 0 | 3 | 4        | 0 |
| Harderian Gland                       |             |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        |   |
|                                       |             |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |
| <b>URINARY SYSTEM</b>                 |             |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |
| Kidney                                |             |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        |   |
| Urinary Bladder                       |             |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        |   |
|                                       |             |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |
| <b>SYSTEMIC LESIONS</b>               |             |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |
| Multiple Organ                        |             |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        |   |
| Histiocytic Sarcoma                   |             |  | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |   |
| Leukemia Mononuclear                  |             |  |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 5        |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. 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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
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 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 | 0                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |  | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6                    | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| FISCHER 344 RATS FEMALE |  | 7 | 8 | 5 | 7 | 3 | 5 | 9 | 3 | 4 | 8 | 8 | 9 | 0 | 0 | 1 | 1 | 4 | 7 | 0 | 1 | 1 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6                    | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                         |  | 9 | 3 | 7 | 5 | 8 | 1 | 0 | 1 | 9 | 5 | 8 | 4 | 0 | 0 | 3 | 3 | 7 | 9 | 7 | 6 | 7 | 6 | 2 | 2 | 1 | 1 | 2 | 2 | 1                    | 1 | 2 | 2 | 1 | 1 | 6 | 6 | 7 |
| 25 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID               |  | 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 | 3                    | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                         |  | 3 | 1 | 0 | 1 | 4 | 3 | 2 | 0 | 2 | 0 | 4 | 4 | 1 | 2 | 1 | 2 | 3 | 0 | 2 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 1                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                         |  | 9 | 8 | 8 | 3 | 3 | 4 | 6 | 4 | 2 | 7 | 9 | 4 | 7 | 1 | 5 | 5 | 5 | 1 | 0 | 5 | 8 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |   |   |   |   |   |   |   |   |

SYSTEMIC LESIONS

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Leukemia Mononuclear |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE<br>25 MG/KG | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |        |      |
|-------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|------|
|                                     | 0681        | 0699   | 0702   | 0704   | 0706   | 0707   | 0709   | 0712   | 0714   | 0716   | 0719   | 0722   | 0724   | 0726   | 0729   | 0731   | 0733   | 0735   | 0737   | 0739   |          | 0741   | 0743 |
| ANIMAL ID                           | 003122      | 003340 | 003350 | 003360 | 003370 | 003380 | 003390 | 003400 | 003410 | 003420 | 003430 | 003440 | 003450 | 003460 | 003470 | 003480 | 003490 | 003500 | 003510 | 003520 | 003530   | 003540 |      |
|                                     | 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      | 39   |
|                                     | 3           | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3        | 3      | 33   |
|                                     | 1           | 4      | 0      | 5      | 2      | 0      | 0      | 1      | 1      | 2      | 4      | 4      | 4      | 0      | 1      | 2      | 2      | 2      | 3      | 3      | 3        | 4      | 41   |
|                                     | 2           | 8      | 3      | 0      | 3      | 6      | 2      | 6      | 9      | 4      | 1      | 2      | 5      | 9      | 1      | 7      | 8      | 9      | 1      | 2      | 3        | 6      | 40   |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | A | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Intestine Large, Colon    | A | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33 |
| Intestine Large, Rectum   | A | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 41 |
| Intestine Small, Duodenum | A | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Intestine Small, Ileum    | A | A | + | + | + | A | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 33 |
| Intestine Small, Jejunum  | A | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 33 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   | + |   |   | + | 9  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular        | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

**CARDIOVASCULAR SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

Schwannoma Benign X X 2

**ENDOCRINE SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex             | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>46</b> |
| Adrenal Medulla            | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b> |
| Pheochromocytoma Malignant |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Islets, Pancreatic         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Parathyroid Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | <b>47</b> |
| Pituitary Gland            | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b> |
| Pars Distalis, Adenoma     | X |   |   | X | X |   | X | X | X | X |   |   |   |   | X | X |   |   | X | X |   |   |   |   |   | <b>15</b> |
| Thyroid Gland              | A | A | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>44</b> |
| C-cell, Adenoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | <b>1</b>  |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Clitoral Gland             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Adenoma                    |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   | <b>6</b>  |
| Carcinoma                  |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3</b>  |
| Ovary                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Uterus                     | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b> |
| Granular Cell Tumor Benign |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| FISCHER 344 RATS FEMALE |           | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |  |
|-------------------------|-----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
| 25 MG/KG                |           | 0681        | 0699 | 0702 | 0704 | 0706 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 |          |  |
|                         | ANIMAL ID | 0031        | 0033 | 0030 | 0005 | 0002 | 0003 | 0006 | 0002 | 0006 | 0009 | 0004 | 0001 | 0002 | 0005 | 0009 | 0001 | 0007 | 0008 | 0009 | 0001 | 0002     |  |

|                 |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |   |  |  |    |
|-----------------|--|--|---|---|--|--|--|--|--|--|--|--|--|---|---|--|--|--|--|--|--|--|---|--|--|----|
| Leiomyoma       |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |   |  |  |    |
| Polyp Stromal   |  |  | X | X |  |  |  |  |  |  |  |  |  | X | X |  |  |  |  |  |  |  | X |  |  | 12 |
| Sarcoma Stromal |  |  |   |   |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |  |  |   |  |  | 1  |
| Vagina          |  |  |   |   |  |  |  |  |  |  |  |  |  |   | + |  |  |  |  |  |  |  |   |  |  | 1  |

HEMATOPOIETIC SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Bone Marrow                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |
| Lymph Node                                       | + |   |   |   |   |   |   |   |   |   |   |   |   | M |   |   |   |   |   |   |   |   |   | + |    | 6  |
| 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  | 1  |
| Lymph Node, Mesenteric                           | + | + | + | + | + | A | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | 47 |    |
| Spleen   | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |    |
| Thymus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |
| Alveolar/Bronchiolar Carcinoma, Metastatic, Lung |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |

INTEGUMENTARY SYSTEM

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Mammary Gland                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |
| Carcinoma                    | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |
| Fibroadenoma                 |   |   |   |   |   |   | X |   | X |   |   |   | X |   |   |   | X |   |   |   |   | X |   |   | 8  |    |
| Fibroadenoma, Multiple       |   | X | X |   |   | X |   |   |   |   | X |   |   |   | X | X |   |   |   |   |   |   |   |   | 7  |    |
| Skin                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |
| Hemangiosarcoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |
| Subcutaneous Tissue, Fibroma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|             | 0681                    | 0699 | 0702 | 0704 | 0706 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 |          |
| ANIMAL ID   | 0031                    | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | 0051 | 0052 | 0053 | 0054 | 0055 | 50       |

**MUSCULOSKELETAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Osteosarcoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Skeletal Muscle |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**NERVOUS SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

**RESPIRATORY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Carcinoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hemangiosarcoma, Metastatic, Skin |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Nose                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Trachea                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

**SPECIAL SENSES SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Eye                       | A | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 41 |
| Harderian Gland Carcinoma | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |    |
|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |    |

**URINARY SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney          | A | A | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/11/2010  
**Time Report Requested:** 13:01:01  
**First Dose M/F:** 06/09/03 / 06/09/03  
**Lab:** SRI

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

**SYSTEMIC LESIONS**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Leukemia Mononuclear |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X | 5  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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<br>4<br>4 | 0<br>4<br>6 | 0<br>5<br>2 | 0<br>5<br>2 | 0<br>5<br>4 | 0<br>6<br>1 | 0<br>6<br>5 | 0<br>7<br>1 | 0<br>7<br>3 | 0<br>7<br>9 | 0<br>7<br>9 | 0<br>8<br>2 | 0<br>8<br>7 | 0<br>8<br>7 | 0<br>8<br>9 | 0<br>8<br>9 | 0<br>8<br>9 | 0<br>9<br>3 | 0<br>9<br>9 | 0<br>9<br>1 | 0<br>1<br>2 | 0<br>1<br>6 | 0<br>1<br>0 | 0<br>1<br>4 |           |                       | 0<br>1<br>7 |
|                                     | 0           | 0           | 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>8<br>6 |             |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |  |
| Intestine Large, Colon    | A | + | + | A | + | + | + | + | A | A | + | A | + | A | A | A | A | + | A | + | A | A | A | + |  |
| Intestine Large, Rectum   | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |  |
| Intestine Small, Ileum    | + | + | A | + | + | + | + | + | A | A | + | + | + | A | A | A | A | + | A | A | A | A | A | A |  |
| Intestine Small, Jejunum  | + | A | + | + | + | + | + | + | + | A | + | + | + | + | A | + | A | + | A | A | A | A | A | + |  |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

**CARDIOVASCULAR SYSTEM**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Blood Vessel |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Heart        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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                       | 4           | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      |
| 4                       | 6           | 2 | 2 | 4 | 1 | 5 | 1 | 3 | 9 | 9 | 2 | 7 | 7 | 9 | 9 | 9 | 3 | 9 | 1 | 2 | 6 | 0 | 4 | 7 |           |                      |
| 0                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                      |
| 0                       | 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 | 4 | 3 | 3 | 3 | 3 | 3 |           |                      |
| 8                       | 5           | 5 | 7 | 5 | 5 | 5 | 8 | 6 | 6 | 7 | 6 | 8 | 8 | 5 | 7 | 9 | 9 | 0 | 7 | 7 | 8 | 8 | 6 | 5 |           |                      |
| 6                       | 1           | 3 | 3 | 5 | 2 | 4 | 7 | 5 | 2 | 4 | 1 | 4 | 9 | 9 | 1 | 1 | 8 | 0 | 2 | 8 | 2 | 1 | 3 | 7 |           |                      |

**ENDOCRINE SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland  | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| Pituitary Gland    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + |
| Thyroid Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**HEMATOPOIETIC SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular | 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 tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

| DAY ON TEST                   | FISCHER 344 RATS FEMALE |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             | ANIMAL ID | females<br>(cont...) |             |
|-------------------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|----------------------|-------------|
|                               | 0<br>4<br>4             | 0<br>4<br>6 | 0<br>5<br>2 | 0<br>5<br>2 | 0<br>5<br>4 | 0<br>6<br>1 | 0<br>6<br>5 | 0<br>7<br>1 | 0<br>7<br>3 | 0<br>7<br>9 | 0<br>7<br>9 | 0<br>8<br>2 | 0<br>8<br>7 | 0<br>8<br>7 | 0<br>8<br>9 | 0<br>8<br>9 | 0<br>8<br>9 | 0<br>9<br>3 | 0<br>9<br>9 | 0<br>9<br>1 | 0<br>1<br>2 | 0<br>1<br>6 | 0<br>1<br>0 | 0<br>1<br>4 |           |                      | 0<br>1<br>2 |
| Lymph Node, Mesenteric        | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| Spleen                        | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| Thymus                        | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| <b>INTEGUMENTARY SYSTEM</b>   |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |                      |             |
| Mammary Gland                 | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| Skin                          | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| <b>MUSCULOSKELETAL SYSTEM</b> |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |                      |             |
| Bone                          | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| <b>NERVOUS SYSTEM</b>         |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |                      |             |
| Brain                         | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| <b>RESPIRATORY SYSTEM</b>     |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |                      |             |
| Lung                          | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| Nose                          | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| Trachea                       | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| <b>SPECIAL SENSES SYSTEM</b>  |                         |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |           |                      |             |
| Eye                           | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |
| Harderian Gland               | +                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +         | +                    | +           |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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



|                                |                 | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |
|--------------------------------|-----------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|
| <b>FISCHER 344 RATS FEMALE</b> | <b>50 MG/KG</b> | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <b>* TOTALS</b> |   |   |
|                                |                 | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |                 | 2 | 2 |
|                                |                 | 2           | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 8 | 9 | 9 | 0 | 1 | 3 | 3 | 3 | 3 |                 | 3 | 3 |
|                                |                 | 7           | 0 | 4 | 3 | 8 | 8 | 0 | 3 | 6 | 6 | 8 | 3 | 6 | 7 | 3 | 0 | 0 | 4 | 1 | 5 | 9 | 9 | 9 |                 | 9 | 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               |   |   |
|                                |                 | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3               |   |   |
|                                |                 | 6           | 9 | 8 | 7 | 7 | 9 | 6 | 8 | 6 | 7 | 9 | 9 | 5 | 7 | 9 | 8 | 6 | 9 | 9 | 5 | 9 | 6 | 6 | 7               |   |   |
|                                |                 | 8           | 6 | 8 | 9 | 0 | 0 | 9 | 3 | 0 | 6 | 9 | 4 | 8 | 7 | 7 | 5 | 4 | 3 | 2 | 6 | 5 | 6 | 7 | 5               |   |   |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Intestine Large, Cecum    | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | <b>47</b> |
| Intestine Large, Colon    | + | A | A | A | + | A | A | A | A | + | + | + | A | + | A | A | A | + | + | + | + | + | + | + | <b>25</b> |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>47</b> |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | <b>47</b> |
| Intestine Small, Ileum    | A | A | A | A | + | A | + | A | + | M | + | + | + | + | + | A | + | + | + | + | + | + | + | + | <b>29</b> |
| Intestine Small, Jejunum  | + | + | + | A | A | A | + | A | + | + | + | A | + | A | A | + | + | A | A | + | A | + | + | + | <b>31</b> |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Mesentery                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   | + |   |   | <b>2</b>  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |

**CARDIOVASCULAR SYSTEM**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Blood Vessel |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   | <b>3</b>  |
| Heart        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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 | 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                       | 3           | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 8 | 9 | 9 | 0 | 1 | 3 | 3 | 3 | 3 | 3 |                 |
| 7                       | 0           | 0 | 4 | 3 | 8 | 8 | 0 | 3 | 6 | 6 | 8 | 3 | 6 | 7 | 7 | 3 | 0 | 0 | 4 | 1 | 5 | 9 | 9 | 9 |                 |
| 50 MG/KG                | 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 |                 |
| 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 |                 |
| 6                       | 9           | 8 | 7 | 7 | 9 | 6 | 8 | 6 | 7 | 9 | 9 | 5 | 7 | 9 | 8 | 6 | 9 | 9 | 5 | 9 | 6 | 6 | 7 | 8 |                 |
| 8                       | 6           | 8 | 9 | 0 | 0 | 9 | 3 | 0 | 6 | 9 | 4 | 8 | 7 | 7 | 5 | 4 | 3 | 2 | 6 | 5 | 6 | 7 | 5 | 0 |                 |
|                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

**ENDOCRINE SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Adrenal Cortex     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Adrenal Medulla    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Parathyroid Gland  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | <b>45</b> |
| Pituitary Gland    | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b> |
| Thyroid Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Ovary          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Uterus         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |

**HEMATOPOIETIC SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Lymph Node             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>7</b>  |
| 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 | <b>4</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

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

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 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 | 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 | 0 | 0  |          |  |
| Lymph Node, Mesenteric        | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| Spleen                        | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| Thymus                        | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| <b>INTEGUMENTARY SYSTEM</b>   |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |  |
| Mammary Gland                 | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| Skin                          | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| <b>MUSCULOSKELETAL SYSTEM</b> |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |  |
| Bone                          | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| <b>NERVOUS SYSTEM</b>         |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |  |
| Brain                         | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| <b>RESPIRATORY SYSTEM</b>     |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |  |
| Lung                          | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| Nose                          | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| Trachea                       | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| <b>SPECIAL SENSES SYSTEM</b>  |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |  |
| Eye                           | +                       | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |          |  |
| Harderian Gland               | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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

|                                |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |  |
|--------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|--|
|                                |  | 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                    |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2               | 2 |  |
| <b>FISCHER 344 RATS FEMALE</b> |  | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 8 | 9 | 9 | 0 | 1 | 3 | 3 | 3 | 3               |   |  |
| <b>50 MG/KG</b>                |  | 7 | 0 | 4 | 3 | 8 | 8 | 0 | 3 | 6 | 6 | 8 | 3 | 7 | 7 | 3 | 0 | 0 | 4 | 1 | 5 | 9 | 9 | 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               |   |  |
|                                |  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3               |   |  |
|                                |  | 6 | 9 | 8 | 7 | 7 | 9 | 6 | 8 | 6 | 7 | 9 | 9 | 5 | 7 | 9 | 8 | 6 | 9 | 9 | 5 | 9 | 6 | 7               |   |  |
|                                |  | 8 | 6 | 8 | 9 | 0 | 0 | 9 | 3 | 0 | 6 | 9 | 4 | 8 | 7 | 5 | 4 | 3 | 2 | 6 | 5 | 6 | 7 | 5               | 0 |  |
|                                |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |  |

**URINARY SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Kidney          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |

**SYSTEMIC LESIONS**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

\*\*\* END OF REPORT \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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