

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

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

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

F2_R2

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

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FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																									ANIMAL ID	males (cont...)
	0656	0367	0674	0163	0675	0770	0779	0677	0770	0779	0770	0779	0770	0779	0770	0779	0376	0679	0770	0779	0770	0779	0770	0779	0770		
Infiltration Cellular, Mixed Cell Mixed Cell Focus	1				1	1				1		1		1		1		1		1	1		2	1			
Bile Duct, Hyperplasia Hepatocyte, Vacuolization Cytoplasmic	3		3		1	1		2	3	2	2	3	2	1	1	2	2				2	2	3	2		4	3
Mesentery Fat, Necrosis																											
Pancreas Atrophy Cyst Acinus, Hyperplasia, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands Atrophy Inflammation, Acute Duct, Hyperplasia																											
Stomach, Forestomach Edema Erosion Ulcer Epithelium, Hyperplasia																											
Stomach, Glandular Erosion Ulcer																											

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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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		
6	3	6	1	6	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	0	
5	6	7	6	1	3	2	7	2	3	3	3	0	2	2	2	5	8	3	3	3	3	3	1	4	0		
6	7	4	3	5	0	9	7	9	0	0	0	2	9	9	9	6	9	0	0	0	0	0	6	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2		
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	2		
Thyroid Gland	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+			
Degeneration, Cyst																											
Ultimobranchial Cyst																											
C-cell, Hyperplasia																											
GENERAL BODY SYSTEM																											
Tissue NOS																											
GENITAL SYSTEM																											
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Cyst																											
Hyperplasia																											
Inflammation, Chronic																											
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Fibrosis																											
Inflammation, Chronic	2	1	3		2	1		2		1	2					1	2	3	1		2	2		3	1		
Epithelium, Hyperplasia	1	1	2		1		1										2	2				1		2			
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Germinal Epithelium, Atrophy																											
Interstitial Cell, Hyperplasia																											

HEMATOPOIETIC SYSTEM

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	0656	0367	0674	0163	0675	0770	0779	0677	0772	0773	0773	0773	0770	0772	0779	0779	0356	0668	0773	0773	0773	0773	0773	0771	0772			0773
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia		4											2								2					3		
Myelofibrosis													2															1
Lymph Node																												
Mediastinal, Ectasia																												
Mediastinal, Hemorrhage																												
Mediastinal, Hyperplasia, Lymphoid																												
Pancreatic, Hemorrhage																												1
Pancreatic, Pigmentation																												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	M	M	M	M	M	M
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia																												3
Hemorrhage																												1
Hyperplasia, Lymphoid																												2
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																												4
Fibrosis																												2
Hematopoietic Cell Proliferation																												4
Hemorrhage																												1
Infarct																												2
Pigmentation	2		3	2	2				2							2		3		2			2				2	
Lymphoid Follicle, Hyperplasia									1					2						2	2						2	
Thymus	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

INTEGUMENTARY SYSTEM

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosis																						3			
Hyperplasia								2																	
Duct, Ectasia	3		2				3				2	3	4			2	2	1	2		2	2		3	1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperkeratosis																									
Inflammation, Granulomatous																									
Epidermis, Hyperkeratosis																									
Epidermis, Hyperplasia, Focal																									

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																									

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Compression	X		X		X						X					X				X				

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Histiocyte	1		1		1	1		1	1	1	1	1	1					1	1			1	2	1
Inflammation, Chronic											1													
Metaplasia, Osseous			1		1																			
Alveolar Epithelium, Hyperplasia		2					2			1			1	1					1		1			3
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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FISCHER 344 RATS MALE	DAY ON TEST																				* TOTALS				
	0704	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709		0709	0709		
0 MG/KG	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050

ALIMENTARY SYSTEM

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

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FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																				* TOTALS				
	0704	0702	0709	0703	0707	0707	0705	0707	0705	0707	0707	0706	0707	0705	0706	0707	0705	0706	0707	0707		0707	0706	0706	
ANIMAL ID	00026	00007	00008	00009	00000	00001	00002	00003	00004	00005	00006	00007	00008	00009	00000	00001	00002	00003	00004	00005	00006	00007	00008	00009	
Cardiomyopathy	1	1	2	2	1	2				2	1	1	1	1	1	2	2	2	2		1	1		2	1
Thrombosis																	X						X		
																									44 1.4 3

ENDOCRINE SYSTEM

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

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	0 7 0 4	0 7 0 9	0 7 2 9	0 3 7 0	0 7 2 9	0 7 2 9	0 5 4 0	0 7 2 9	0 5 7 5	0 7 2 9	0 7 2 9	0 7 3 0	0 6 7 0	0 7 3 0	0 5 4 0	0 6 1 2	0 7 2 9	0 5 7 0	0 6 7 0	0 7 3 0		0 7 1 6	0 7 3 0	0 6 3 4	0 6 6 9			
ANIMAL ID	0 0 2 6	0 0 2 7	0 0 2 8	0 0 2 9	0 0 3 0	0 0 3 1	0 0 3 2	0 0 3 3	0 0 3 4	0 0 3 5	0 0 3 6	0 0 3 7	0 0 3 8	0 0 3 9	0 0 4 0	0 0 4 1	0 0 4 2	0 0 4 3	0 0 4 4	0 0 4 5	0 0 4 6	0 0 4 7	0 0 4 8	0 0 4 9	0 0 5 0			
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	46		
Degeneration, Cystic																										7	1.1	
Ultimobranchial Cyst						2																			1	2	1.5	
C-cell, Hyperplasia								1	4																	2	2.5	
GENERAL BODY SYSTEM																												
Tissue NOS																											1	
GENITAL SYSTEM																												
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Cyst																											1	
Hyperplasia						3											2									2	2.5	
Inflammation, Chronic			2				2		2				4		2				3	3		2				13	2.5	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Fibrosis																											1	2.0
Inflammation, Chronic		3	1			3				2	2	2		2	1	2	2	3		2	1	1		1	2	32	1.8	
Epithelium, Hyperplasia		2	1		2	2				1	1		1	1	1	1	2		1		1		1		1	23	1.3	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Germinal Epithelium, Atrophy		4																			2					5	2.2	
Interstitial Cell, Hyperplasia					1				2		1														1	9	1.3	

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

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

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

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

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

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

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

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

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

FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																				* TOTALS					
	0704	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709	0709		0709	0709			
ANIMAL ID	00026	00007	00008	00009	00000	00001	00002	00003	00004	00005	00006	00007	00008	00009	00000	00001	00002	00003	00004	00005	00006	00007	00008	00009		
Foreign Body				1						1		2	2						2			2			11 1.6	
Inflammation, Chronic	1			1						1	1	3	2						3			2			13 1.6	
Goblet Cell, Hyperplasia																	1								2 1.5	
Respiratory Epithelium, Hyperplasia	2				1					1	1	2	2						2	2		1	1		13 1.4	
Trachea Inflammation, Acute	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 3.0	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	49 6 1.3	
Cataract																			1					1	1 3.0	
Edema												3													1 3.0	
Bilateral, Cataract												4													1 4.0	
Retina, Degeneration												4													1 4.0	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 3.0	
Hyperplasia, Focal																									1 3.0	
Inflammation, Chronic					1														1						3 1.0	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	48 1 3.0	
Casts Granular	3																								1 3.0	
Casts Protein		2	2			1	1	1		1	1		1			1						1		1	18 1.1	
Cyst											X														1	
Hydronephrosis	2																								1 2.0	
Infarct																						2			3 2.3	
Mineralization	1		1			1				1			1		1	1			1	1			1		17 1.0	
Nephropathy	4	2	2	1	1	2	1	2	1	2	2	2	2	1	1	2	2		1	2	1	2	1	1	45 1.5	
Artery, Thrombosis					X																				1	

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

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

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

FISCHER 344 RATS MALE	DAY ON TEST																								ANIMAL ID	males (cont...)
	07163	06473	05719	04762	07779	06779	07779	07779	07779	07779	07779	07779	06779	07779	07779	07779	07779	07779	07779	06779	07779	06779	07779	07779		
12.5 MG/KG	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	

ALIMENTARY SYSTEM

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

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

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

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

FISCHER 344 RATS MALE	DAY ON TEST																								ANIMAL ID	males (cont...)
	07 16 6	06 03 3	04 07 7	05 01 9	07 02 9	06 06 2	07 02 9	07 02 9	07 02 9	07 03 0	07 03 0	07 03 0	07 02 9	06 07 6	07 02 3	07 03 9	07 03 9	07 02 9	07 02 9	06 07 8	07 01 0	07 03 1	06 07 0	07 03 4		
12.5 MG/KG	00 00 51	00 00 52	00 00 53	00 00 54	00 00 55	00 00 56	00 00 57	00 00 58	00 00 59	00 00 60	00 00 61	00 00 62	00 00 63	00 00 64	00 00 65	00 00 66	00 00 67	00 00 68	00 00 69	00 00 70	00 00 71	00 00 72	00 00 73	00 00 74	00 00 75	
Ulcer				2		3															3	2				

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

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

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

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

FISCHER 344 RATS MALE 12.5 MG/KG	DAY ON TEST																								ANIMAL ID	males (cont...)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	0716	0717	0718	0719	0720	0721	0722	0723	0724	0725	0726	0727	0728	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739			0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752	0753	0754	0755	0756	0757	0758	0759	0760	0761	0762	0763	0764	0765	0766	0767	0768	0769	0770	0771	0772	0773	0774	0775	0776	0777	0778	0779	0780	0781	0782	0783	0784	0785	0786	0787	0788	0789	0790	0791	0792	0793	0794	0795	0796	0797	0798	0799	0800	0801	0802	0803	0804	0805	0806	0807	0808	0809	0810	0811	0812	0813	0814	0815	0816	0817	0818	0819	0820	0821	0822	0823	0824	0825	0826	0827	0828	0829	0830	0831	0832	0833	0834	0835	0836	0837	0838	0839	0840	0841	0842	0843	0844	0845	0846	0847	0848	0849	0850	0851	0852	0853	0854	0855	0856	0857	0858	0859	0860	0861	0862	0863	0864	0865	0866	0867	0868	0869	0870	0871	0872	0873	0874	0875	0876	0877	0878	0879	0880	0881	0882	0883	0884	0885	0886	0887	0888	0889	0890	0891	0892	0893	0894	0895	0896	0897	0898	0899	0900	0901	0902	0903	0904	0905	0906	0907	0908	0909	0910	0911	0912	0913	0914	0915	0916	0917	0918	0919	0920	0921	0922	0923	0924	0925	0926	0927	0928	0929	0930	0931	0932	0933	0934	0935	0936	0937	0938	0939	0940	0941	0942	0943	0944	0945	0946	0947	0948	0949	0950	0951	0952	0953	0954	0955	0956	0957	0958	0959	0960	0961	0962	0963	0964	0965	0966	0967	0968	0969	0970	0971	0972	0973	0974	0975	0976	0977	0978	0979	0980	0981	0982	0983	0984	0985	0986	0987	0988	0989	0990	0991	0992	0993	0994	0995	0996	0997	0998	0999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510	1511	1512	1513	1514	1515	1516	1517	1518	1519	1520	1521	1522	1523	1524	1525	1526	1527	1528	1529	1530	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	1541	1542	1543	1544	1545	1546	1547	1548	1549	1550	1551	1552	1553	1554	1555	1556	1557	1558	1559	1560	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590	1591	1592	1593	1594	1595	1596	1597	1598	1599	1600	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	1641	1642	1643	1644	1645	1646	1647	1648	1649	1650	1651	1652	1653	1654	1655	1656	1657	1658	1659	1660	1661	1662	1663	1664	1665	1666	1667	1668	1669	1670	1671	1672	1673	1674	1675	1676	1677	1678	1679	1680	1681	1682	1683	1684	1685	1686	1687	1688	1689	1690	1691	1692	1693	1694	1695	1696	1697	1698	1699	1700	1701	1702	1703	1704	1705	1706	1707	1708	1709	1710	1711	1712	1713	1714	1715	1716	1717	1718	1719	1720	1721	1722	1723	1724	1725	1726	1727	1728	1729	1730	1731	1732	1733	1734	1735	1736	1737	1738	1739	1740	1741	1742	1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754	1755	1756	1757	1758	1759	1760	1761	1762	1763	1764	1765	1766	1767	1768	1769	1770	1771	1772	1773	1774	1775	1776	1777	1778	1779	1780	1781	1782	1783	1784	1785	1786	1787	1788	1789	1790	1791	1792	1793	1794	1795	1796	1797	1798	1799	1800	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045

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

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

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

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 BLANK .. Not examined microscopically

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

TDMS No. 99037 - 05
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FISCHER 344 RATS MALE 12.5 MG/KG	DAY ON TEST																				* TOTALS						
	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677		0677					
ANIMAL ID	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076	0076						
Centrilobular, Necrosis																						1 4.0					
Hepatocyte, Vacuolization Cytoplasmic		3				4	2				3				3							10 2.6					
Hepatocyte, Vacuolization Cytoplasmic, Focal									1													2 1.0					
Kupffer Cell, Pigmentation	2	3																				4 1.8					
Mesentery																						10					
Accessory Spleen																						1					
Fat, Necrosis																						9 1.9					
Oral Mucosa																						1					
Pancreas																						50					
Atrophy	2	4	1	2	1	2				1	1	1			1		2	2	1		3	3	4	1	2	35 1.9	
Cyst																											25
Necrosis																											1 3.0
Acinus, Hyperplasia, Focal																											1 1.0
Salivary Glands																											50
Atrophy																											4 1.8
Inflammation, Chronic																											2 1.5
Stomach, Forestomach																											50
Edema																											4 2.3
Ulcer																											3 2.7
Epithelium, Hyperplasia																											12 2.2
Stomach, Glandular																											50
Cyst																											1
Edema																											2 2.0
Erosion																											6 1.7
Inflammation																											1 1.0

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

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DAY ON TEST	FISCHER 344 RATS MALE																								* TOTALS
	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	
ANIMAL ID	12.5 MG/KG																								* TOTALS
00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	
Respiratory Epithelium, Hyperplasia	2																								7 1.6
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cataract			1	1																1					9 1.7
Edema																									1 2.0
Hemorrhage								3																	1 3.0
Inflammation, Chronic								3																	2 2.5
Bilateral, Cataract								2																	2 1.5
Retina, Degeneration																									2 3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Focal																									1 1.0
Inflammation, Chronic				1														2	1	2					4 1.5
Pigmentation								4																	1 4.0
Lacrimal Gland		+																							2
Zymbal's Gland									+																1
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	48
Casts Protein	1	1		1			1		3			1	1	2		2	1	3	1	2	1				30 1.5
Cyst																									3
Hydronephrosis																									1 3.0
Infarct																									1 3.0
Inflammation, Suppurative								1																	2 2.5

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

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

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

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

ALIMENTARY SYSTEM

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

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

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

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

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

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

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

Hepatocyte, Vacuolization Cytoplasmic
 Hepatocyte, Vacuolization Cytoplasmic, Focal

Mesentery
 Accessory Spleen
 Hemorrhage
 Fat, Necrosis

+

2

2

Pancreas
 Atrophy
 Cyst
 Acinus, Hyperplasia, Focal

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

Salivary Glands
 Atrophy
 Inflammation, Acute

+
 1 2 1

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

+
 4
 4
 1 1 2

Stomach, Glandular
 Edema
 Erosion
 Ulcer

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

CARDIOVASCULAR SYSTEM

Heart +

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

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

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

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

| FISCHER 344 RATS MALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|--|
| | 0500 | 0600 | 0700 | 0800 | 0900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | | | 2500 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0001 | | |
| | 5 | 2 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 4 | 6 | 6 | 6 | 5 | 7 | 7 | 4 | 6 | 4 | 0 | 0002 | |
| | 0 | 7 | 3 | 3 | 5 | 3 | 7 | 2 | 2 | 7 | 0 | 5 | 0 | 5 | 9 | 0 | 2 | 2 | 5 | 1 | 8 | 3 | 0003 | |
| | 0 | 0 | 5 | 0 | 5 | 0 | 7 | 9 | 9 | 9 | 7 | 2 | 8 | 2 | 8 | 6 | 9 | 9 | 0 | 5 | 5 | 0 | 0004 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0005 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0006 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0007 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 0008 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 0009 | |

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

ENDOCRINE SYSTEM

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

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

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

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

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

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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0532 | 0406 | 0173 | 0773 | 0549 | 0458 | 0574 | 0773 | 0773 | 0773 | 0773 | 0666 | 0667 | 0763 | 0667 | 0763 | 0636 | 0367 | 0737 | 0776 | 0666 | 0666 | 0666 | 0666 | |
| ANIMAL ID | 00126 | 00017 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | 3 | | | 4 | | 2 | | | 3 | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic, Focal | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | + | | | | | + | + | | | + | | + | + | | | | + | + | + | | | 11 | |
| Accessory Spleen | | | | | | | | X | | | | | | | | | | | | | | | | 1 | |
| Hemorrhage | | | | | | | | | | | | | | 4 | | | | | | | | | | 1 | |
| Fat, Necrosis | | | | 2 | | | | | | | 1 | | 3 | | | | | | 2 | 2 | 3 | | | 8 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | 2 | | 1 | | 2 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 1 | 3 | | 3 | 2 | | 2 | 1 | 1 | |
| Cyst | | | | X | X | X | | X | | | | | | X | X | X | | | | | X | X | | 15 | |
| Acinus, Hyperplasia, Focal | | | | 4 | | | | | | 2 | | | | 2 | | | | | 3 | | | | | 6 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | 1 | 1 | 2 | | 2 | | | | | | | 9 | |
| Inflammation, Acute | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Chronic Active | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 | |
| Ulcer | | | | | | | | | | 4 | | | | | | | | | | | | | | 2 | |
| Epithelium, Hyperplasia | 2 | | 1 | | | | | 1 | 4 | 1 | | | 1 | | | 3 | | | 2 | | 2 | 1 | | 13 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Erosion | | | | 3 | | | 2 | 3 | | | | | | | | | | | | | | | | 6 | |
| Ulcer | | | | | | | | | | | | | | | | 4 | | | | | | 2 | | 2 | |

CARDIOVASCULAR SYSTEM

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

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

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

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

| FISCHER 344 RATS MALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|----------|-----|
| | 0532 | 0404 | 0163 | 0773 | 0773 | 0549 | 0458 | 0574 | 0773 | 0773 | 0773 | 0773 | 0663 | 0667 | 0762 | 0665 | 0369 | 0362 | 0731 | 0737 | 0776 | 0666 | 0666 | | | |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | | | |
| Cardiomyopathy | 1 | 1 | 1 | 1 | 2 | 1 | | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 47 | 1.4 |
| Thrombosis | | | | X | | | | | | | | | | | | | X | | | | | | | 2 | | |

ENDOCRINE SYSTEM

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

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

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

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

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

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

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 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

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

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

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

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

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

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

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

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

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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|-----------------------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|-----|-----|----|-----|
| | 0532 | 0406 | 0173 | 0773 | 0549 | 0458 | 0574 | 0773 | 0773 | 0773 | 0773 | 0666 | 0666 | 0773 | 0666 | 0773 | 0666 | 0367 | 0773 | 0773 | | 0666 | 0666 | | | | |
| ANIMAL ID | 0012 | 0002 | 0002 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | | | | |
| Mammary Gland Duct, Ectasia | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | |
| | | | | 2 | | 1 | 2 | 1 | | 1 | 2 | 1 | 3 | 1 | 3 | 2 | | | 1 | 3 | 2 | 1 | 2 | 2 | 3 | 34 | 1.8 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | X | | | | | | | | | | X | | 4 | | | |
| Hyperkeratosis | | | | | | | | | | | | 2 | | | | | | | 4 | | | 2 | | 5 | 2.8 | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | 1 | 2 | | 4 | 2.3 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | 3 | | | 3 | 2.7 | | | |
| Subcutaneous Tissue, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | 2 | | | | 2 | | 2 | 2.0 | | |
| Skeletal Muscle | + | | | | | | | | | + | | | | | | | | | | | | | | 2 | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Compression | | | | | | | | | | | | | | | X | | X | | | X | X | | X | X | 11 | | |
| Mineralization | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 | 2.0 | | |
| Necrosis | | | | | | | | | | | | | | | | 4 | | | | | | | | 1 | 4.0 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Infiltration Cellular, Histiocyte | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | | 1 | 33 | 1.1 | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.5 | | |

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

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

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

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

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0603 | 0094 | 0042 | 0055 | 0023 | 0036 | 0044 | 0022 | 0033 | 0011 | 0066 | 0032 | 0016 | 0033 | 0055 | 0033 | 0053 | 0035 | 0037 | 0000 | 0022 | 0022 | 0022 | 0033 | 0036 | | |
| | 003 | 004 | 002 | 005 | 005 | 009 | 003 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | |
| | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | |
| | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | |

ALIMENTARY SYSTEM

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

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

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

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

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

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

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|--|
| | 0603 | 0042 | 0045 | 0052 | 0053 | 0066 | 0064 | 0022 | 0032 | 0011 | 0063 | 0033 | 0055 | 0033 | 0053 | 0053 | 0035 | 0033 | 0055 | 0033 | 0022 | 0022 | 0022 | 0033 | 0036 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0001 | | |
| | 6 | 0 | 4 | 5 | 2 | 3 | 6 | 4 | 2 | 3 | 2 | 1 | 6 | 3 | 3 | 5 | 3 | 5 | 3 | 3 | 5 | 3 | 3 | 2 | 3 | 6 | 0002 | |
| | 0 | 9 | 2 | 1 | 3 | 5 | 0 | 7 | 8 | 2 | 4 | 3 | 6 | 7 | 3 | 6 | 3 | 1 | 7 | 0 | 9 | 0 | 3 | 8 | 1 | 0003 | | |
| | 3 | 4 | 2 | 5 | 5 | 9 | 3 | 0 | 1 | 3 | 3 | 5 | 7 | 9 | 0 | 8 | 9 | 9 | 4 | 5 | 5 | 5 | 3 | 2 | 0 | 0004 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0005 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0006 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0007 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 0008 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 0009 | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 2 | | 2 | 1 | | 2 | 2 | | | | | | 3 | 2 | | 1 | | 2 | | | | | 2 | | 2 | | | |
| Centrilobular, Necrosis | | | | | | | | 3 | | | | | | | | | | | 4 | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic, Focal | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | | | | 3 | | | 1 | | | | | | 2 | | 1 | 2 | 4 | 2 | | | | | | | 1 | | | |
| Cyst | | | | X | | | X | | | X | | | X | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | 2 | | | | | | | | | | | | | | | 2 | | | | | |
| Stomach, Glandular | + | + | A | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 alpha/beta Thujone mixture
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Date Report Requested: 08/18/2010
 Time Report Requested: 08:56:05
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|---------------------------------|------|
| | 0603 | 0042 | 0042 | 0055 | 0055 | 0069 | 0069 | 0073 | 0073 | 0081 | 0081 | 0093 | 0093 | 0103 | 0103 | 0113 | 0113 | 0123 | 0123 | 0133 | | | 0133 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0005567890123456789012345678901 | |
| Pars Distalis, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pars Distalis, Hyperplasia, Focal | | | | 3 | | 4 | | 3 | | 1 | | | | | | | | | | | | | |
| Pars Distalis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Pars Distalis, Pars Intermedia, Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Angiectasis | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Rathke's Cleft, Dilatation | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Thyroid Gland | A | + | A | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | | |
| Degeneration, Cystic | | | | | | 1 | | | | | | | 1 | | | | | 1 | 1 | | | | 1 |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 4 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland

Epididymis

Penis

Preputial Gland

Inflammation, Chronic

Prostate

Inflammation, Chronic

Epithelium, Hyperplasia

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

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 alpha/beta Thujone mixture
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 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------|--------------------------|-----|
| | 060030 | 060045 | 060052 | 060033 | 060064 | 060042 | 060032 | 060016 | 060033 | 060053 | 060035 | 060033 | 060053 | 060031 | 060070 | 060034 | 060035 | 060033 | 060053 | 060032 | 060022 | 060033 | 060023 | 060038 | 060010 | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 000000000000000000000000 | | |
| Infiltration Cellular | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 000000000000000000000000 | | |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 3 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 000000000000000000000000 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Necrosis, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

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

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

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

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

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 0603 | 0042 | 0042 | 0051 | 0052 | 0053 | 0064 | 0064 | 0072 | 0072 | 0081 | 0081 | 0092 | 0092 | 0101 | 0101 | 0112 | 0112 | 0123 | 0123 | | | 0134 | 0134 | 0145 | 0145 | 0156 | 0156 | 0167 | 0167 | 0178 | 0178 | 0189 | 0189 | 0190 | 0190 | 0201 | 0201 | 0212 | 0212 | 0223 | 0223 | 0234 | 0234 | 0245 | 0245 | 0256 | 0256 | 0267 | 0267 | 0278 | 0278 | 0289 | 0289 | 0290 | 0290 | 0301 | 0301 | 0312 | 0312 | 0323 | 0323 | 0334 | 0334 | 0345 | 0345 | 0356 | 0356 | 0367 | 0367 | 0378 | 0378 | 0389 | 0389 | 0390 | 0390 | 0401 | 0401 | 0412 | 0412 | 0423 | 0423 | 0434 | 0434 | 0445 | 0445 | 0456 | 0456 | 0467 | 0467 | 0478 | 0478 | 0489 | 0489 | 0490 | 0490 | 0501 | 0501 | 0512 | 0512 | 0523 | 0523 | 0534 | 0534 | 0545 | 0545 | 0556 | 0556 | 0567 | 0567 | 0578 | 0578 | 0589 | 0589 | 0590 | 0590 | 0601 | 0601 | 0612 | 0612 | 0623 | 0623 | 0634 | 0634 | 0645 | 0645 | 0656 | 0656 | 0667 | 0667 | 0678 | 0678 | 0689 | 0689 | 0690 | 0690 | 0701 | 0701 | 0712 | 0712 | 0723 | 0723 | 0734 | 0734 | 0745 | 0745 | 0756 | 0756 | 0767 | 0767 | 0778 | 0778 | 0789 | 0789 | 0790 | 0790 | 0801 | 0801 | 0812 | 0812 | 0823 | 0823 | 0834 | 0834 | 0845 | 0845 | 0856 | 0856 | 0867 | 0867 | 0878 | 0878 | 0889 | 0889 | 0890 | 0890 | 0901 | 0901 | 0912 | 0912 | 0923 | 0923 | 0934 | 0934 | 0945 | 0945 | 0956 | 0956 | 0967 | 0967 | 0978 | 0978 | 0989 | 0989 | 0990 | 0990 | 1001 | 1001 | 1012 | 1012 | 1023 | 1023 | 1034 | 1034 | 1045 | 1045 | 1056 | 1056 | 1067 | 1067 | 1078 | 1078 | 1089 | 1089 | 1090 | 1090 | 1101 | 1101 | 1112 | 1112 | 1123 | 1123 | 1134 | 1134 | 1145 | 1145 | 1156 | 1156 | 1167 | 1167 | 1178 | 1178 | 1189 | 1189 | 1190 | 1190 | 1201 | 1201 | 1212 | 1212 | 1223 | 1223 | 1234 | 1234 | 1245 | 1245 | 1256 | 1256 | 1267 | 1267 | 1278 | 1278 | 1289 | 1289 | 1290 | 1290 | 1301 | 1301 | 1312 | 1312 | 1323 | 1323 | 1334 | 1334 | 1345 | 1345 | 1356 | 1356 | 1367 | 1367 | 1378 | 1378 | 1389 | 1389 | 1390 | 1390 | 1401 | 1401 | 1412 | 1412 | 1423 | 1423 | 1434 | 1434 | 1445 | 1445 | 1456 | 1456 | 1467 | 1467 | 1478 | 1478 | 1489 | 1489 | 1490 | 1490 | 1501 | 1501 | 1512 | 1512 | 1523 | 1523 | 1534 | 1534 | 1545 | 1545 | 1556 | 1556 | 1567 | 1567 | 1578 | 1578 | 1589 | 1589 | 1590 | 1590 | 1601 | 1601 | 1612 | 1612 | 1623 | 1623 | 1634 | 1634 | 1645 | 1645 | 1656 | 1656 | 1667 | 1667 | 1678 | 1678 | 1689 | 1689 | 1690 | 1690 | 1701 | 1701 | 1712 | 1712 | 1723 | 1723 | 1734 | 1734 | 1745 | 1745 | 1756 | 1756 | 1767 | 1767 | 1778 | 1778 | 1789 | 1789 | 1790 | 1790 | 1801 | 1801 | 1812 | 1812 | 1823 | 1823 | 1834 | 1834 | 1845 | 1845 | 1856 | 1856 | 1867 | 1867 | 1878 | 1878 | 1889 | 1889 | 1890 | 1890 | 1901 | 1901 | 1912 | 1912 | 1923 | 1923 | 1934 | 1934 | 1945 | 1945 | 1956 | 1956 | 1967 | 1967 | 1978 | 1978 | 1989 | 1989 | 1990 | 1990 | 2001 | 2001 | 2012 | 2012 | 2023 | 2023 | 2034 | 2034 | 2045 | 2045 | 2056 | 2056 | 2067 | 2067 | 2078 | 2078 | 2089 | 2089 | 2090 | 2090 | 2101 | 2101 | 2112 | 2112 | 2123 | 2123 | 2134 | 2134 | 2145 | 2145 | 2156 | 2156 | 2167 | 2167 | 2178 | 2178 | 2189 | 2189 | 2190 | 2190 | 2201 | 2201 | 2212 | 2212 | 2223 | 2223 | 2234 | 2234 | 2245 | 2245 | 2256 | 2256 | 2267 | 2267 | 2278 | 2278 | 2289 | 2289 | 2290 | 2290 | 2301 | 2301 | 2312 | 2312 | 2323 | 2323 | 2334 | 2334 | 2345 | 2345 | 2356 | 2356 | 2367 | 2367 | 2378 | 2378 | 2389 | 2389 | 2390 | 2390 | 2401 | 2401 | 2412 | 2412 | 2423 | 2423 | 2434 | 2434 | 2445 | 2445 | 2456 | 2456 | 2467 | 2467 | 2478 | 2478 | 2489 | 2489 | 2490 | 2490 | 2501 | 2501 | 2512 | 2512 | 2523 | 2523 | 2534 | 2534 | 2545 | 2545 | 2556 | 2556 | 2567 | 2567 | 2578 | 2578 | 2589 | 2589 | 2590 | 2590 | 2601 | 2601 | 2612 | 2612 | 2623 | 2623 | 2634 | 2634 | 2645 | 2645 | 2656 | 2656 | 2667 | 2667 | 2678 | 2678 | 2689 | 2689 | 2690 | 2690 | 2701 | 2701 | 2712 | 2712 | 2723 | 2723 | 2734 | 2734 | 2745 | 2745 | 2756 | 2756 | 2767 | 2767 | 2778 | 2778 | 2789 | 2789 | 2790 | 2790 | 2801 | 2801 | 2812 | 2812 | 2823 | 2823 | 2834 | 2834 | 2845 | 2845 | 2856 | 2856 | 2867 | 2867 | 2878 | 2878 | 2889 | 2889 | 2890 | 2890 | 2901 | 2901 | 2912 | 2912 | 2923 | 2923 | 2934 | 2934 | 2945 | 2945 | 2956 | 2956 | 2967 | 2967 | 2978 | 2978 | 2989 | 2989 | 2990 | 2990 | 3001 | 3001 | 3012 | 3012 | 3023 | 3023 | 3034 | 3034 | 3045 | 3045 | 3056 | 3056 | 3067 | 3067 | 3078 | 3078 | 3089 | 3089 | 3090 | 3090 | 3101 | 3101 | 3112 | 3112 | 3123 | 3123 | 3134 | 3134 | 3145 | 3145 | 3156 | 3156 | 3167 | 3167 | 3178 | 3178 | 3189 | 3189 | 3190 | 3190 | 3201 | 3201 | 3212 | 3212 | 3223 | 3223 | 3234 | 3234 | 3245 | 3245 | 3256 | 3256 | 3267 | 3267 | 3278 | 3278 | 3289 | 3289 | 3290 | 3290 | 3301 | 3301 | 3312 | 3312 | 3323 | 3323 | 3334 | 3334 | 3345 | 3345 | 3356 | 3356 | 3367 | 3367 | 3378 | 3378 | 3389 | 3389 | 3390 | 3390 | 3401 | 3401 | 3412 | 3412 | 3423 | 3423 | 3434 | 3434 | 3445 | 3445 | 3456 | 3456 | 3467 | 3467 | 3478 | 3478 | 3489 | 3489 | 3490 | 3490 | 3501 | 3501 | 3512 | 3512 | 3523 | 3523 | 3534 | 3534 | 3545 | 3545 | 3556 | 3556 | 3567 | 3567 | 3578 | 3578 | 3589 | 3589 | 3590 | 3590 | 3601 | 3601 | 3612 | 3612 | 3623 | 3623 | 3634 | 3634 | 3645 | 3645 | 3656 | 3656 | 3667 | 3667 | 3678 | 3678 | 3689 | 3689 | 3690 | 3690 | 3701 | 3701 | 3712 | 3712 | 3723 | 3723 | 3734 | 3734 | 3745 | 3745 | 3756 | 3756 | 3767 | 3767 | 3778 | 3778 | 3789 | 3789 | 3790 | 3790 | 3801 | 3801 | 3812 | 3812 | 3823 | 3823 | 3834 | 3834 | 3845 | 3845 | 3856 | 3856 | 3867 | 3867 | 3878 | 3878 | 3889 | 3889 | 3890 | 3890 | 3901 | 3901 | 3912 | 3912 | 3923 | 3923 | 3934 | 3934 | 3945 | 3945 | 3956 | 3956 | 3967 | 3967 | 3978 | 3978 | 3989 | 3989 | 3990 | 3990 | 4001 | 4001 | 4012 | 4012 | 4023 | 4023 | 4034 | 4034 | 4045 | 4045 | 4056 | 4056 | 4067 | 4067 | 4078 | 4078 | 4089 | 4089 | 4090 | 4090 | 4101 | 4101 | 4112 | 4112 | 4123 | 4123 | 4134 | 4134 | 4145 | 4145 | 4156 | 4156 | 4167 | 4167 | 4178 | 4178 | 4189 | 4189 | 4190 | 4190 | 4201 | 4201 | 4212 | 4212 | 4223 | 4223 | 4234 | 4234 | 4245 | 4245 | 4256 | 4256 | 4267 | 4267 | 4278 | 4278 | 4289 | 4289 | 4290 | 4290 | 4301 | 4301 | 4312 | 4312 | 4323 | 4323 | 4334 | 4334 | 4345 | 4345 | 4356 | 4356 | 4367 | 4367 | 4378 | 4378 | 4389 | 4389 | 4390 | 4390 | 4401 | 4401 | 4412 | 4412 | 4423 | 4423 | 4434 | 4434 | 4445 | 4445 | 4456 | 4456 | 4467 | 4467 | 4478 | 4478 | 4489 | 4489 | 4490 | 4490 | 4501 | 4501 | 4512 | 4512 | 4523 | 4523 | 4534 | 4534 | 4545 | 4545 | 4556 | 4556 | 4567 | 4567 | 4578 | 4578 | 4589 | 4589 | 4590 | 4590 | 4601 | 4601 | 4612 | 4612 | 4623 | 4623 | 4634 | 4634 | 4645 | 4645 | 4656 | 4656 | 4667 | 4667 | 4678 | 4678 | 4689 | 4689 | 4690 | 4690 | 4701 | 4701 | 4712 | 4712 | 4723 | 4723 | 4734 | 4734 | 4745 | 4745 | 4756 | 4756 | 4767 | 4767 | 4778 | 4778 | 4789 | 4789 | 4790 | 4790 | 4801 | 4801 | 4812 | 4812 | 4823 | 4823 | 4834 | 4834 | 4845 | 4845 | 4856 | 4856 | 4867 | 4867 | 4878 | 4878 | 4889 | 4889 | 4890 | 4890 | 4901 | 4901 | 4912 | 4912 | 4923 | 4923 | 4934 | 4934 | 4945 | 4945 | 4956 | 4956 | 4967 | 4967 | 4978 | 4978 | 4989 | 4989 | 4990 | 4990 | 5001 | 5001 | 5012 | 5012 | 5023 | 5023 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| 5745 | 5756 | 5756 | 5767 | 5767 | 5778 | 5778 | 5789 | 5789 | 5790 | 5790 | 5801 | 5801 | 5812 | 5812 | 5823 | 5823 | 5834 | 5834 | 5845 | 5845 | 5856 | 5856 | 5867 | 5867 | 5878 | 5878 | 5889 | 5889 | 5890 | 5890 | 5901 | 5901 | 5912 | 5912 | 5923 | 5923 | 5934 | 5934 | 5945 | 5945 | 5956 | 5956 | 5967 | 5967 | 5978 | 5978 | 5989 | 5989 | 5990 | 5990 | 6001 | 6001 | 6012 | 6012 | 6023 | 6023 | 6034 | 6034 | 6045 | 6045 | 6056 | 6056 | 6067 | 6067 | 6078 | 6078 | 6089 | 6089 | 6090 | 6090 | 6101 | 6101 | 6112 | 6112 | 6123 | 6123 | 6134 | 6134 | 6145 | 6145 | 6156 | 6156 | 6167 | 6167 | 6178 | 6178 | 6189 | 6189 | 6190 | 6190 | 6201 | 6201 | 6212 | 6212 | 6223 | 6223 | 6234 | 6234 | 6245 | 6245 | 6256 | 6256 | 6267 | 6267 | 6278 | 6278 | 6289 | 6289 | 6290 | 6290 | 6301 | 6301 | 6312 | 6312 | 6323 | 6323 | 6334 | 6334 | 6345 | 6345 | 6356 | 6356 | 6367 | 6367 | 6378 | 6378 | 6389 | 6389 | 6390 | 6390 | 6401 | 6401 | 6412 | 6412 | 6423 | 6423 | 6434 | 6434 | 6445 | 6445 | 6456 | 6456 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TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

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

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 0507 | 0508 | 0509 | 0510 | 0511 | 0512 | 0513 | 0514 | 0515 | 0516 | 0517 | 0518 | 0519 | 0520 | 0521 | 0522 | 0523 | 0524 | 0525 | 0526 | 0527 | 0528 | 0529 | 0530 | 0531 | 0532 | 0533 | 0534 | 0535 | 0536 | 0537 | 0538 | 0539 | 0540 | 0541 | 0542 | 0543 | 0544 | 0545 | 0546 | 0547 | 0548 | 0549 | 0550 | 0551 | 0552 | 0553 | 0554 | 0555 | 0556 | 0557 | 0558 | 0559 | 0560 | 0561 | 0562 | 0563 | 0564 | 0565 | 0566 | 0567 | 0568 | 0569 | 0570 | 0571 | 0572 | 0573 | 0574 | 0575 | 0576 | 0577 | 0578 | 0579 | 0580 | 0581 | 0582 | 0583 | 0584 | 0585 | 0586 | 0587 | 0588 | 0589 | 0590 | 0591 | 0592 | 0593 | 0594 | 0595 | 0596 | 0597 | 0598 | 0599 | 0600 | 0601 | 0602 | 0603 | 0604 | 0605 | 0606 | 0607 | 0608 | 0609 | 0610 | 0611 | 0612 | 0613 | 0614 | 0615 | 0616 | 0617 | 0618 | 0619 | 0620 | 0621 | 0622 | 0623 | 0624 | 0625 | 0626 | 0627 | 0628 | 0629 | 0630 | 0631 | 0632 | 0633 | 0634 | 0635 | 0636 | 0637 | 0638 | 0639 | 0640 | 0641 | 0642 | 0643 | 0644 | 0645 | 0646 | 0647 | 0648 | 0649 | 0650 | 0651 | 0652 | 0653 | 0654 | 0655 | 0656 | 0657 | 0658 | 0659 | 0660 | 0661 | 0662 | 0663 | 0664 | 0665 | 0666 | 0667 | 0668 | 0669 | 0670 | 0671 | 0672 | 0673 | 0674 | 0675 | 0676 | 0677 | 0678 | 0679 | 0680 | 0681 | 0682 | 0683 | 0684 | 0685 | 0686 | 0687 | 0688 | 0689 | 0690 | 0691 | 0692 | 0693 | 0694 | 0695 | 0696 | 0697 | 0698 | 0699 | 0700 | 0701 | 0702 | 0703 | 0704 | 0705 | 0706 | 0707 | 0708 | 0709 | 0710 | 0711 | 0712 | 0713 | 0714 | 0715 | 0716 | 0717 | 0718 | 0719 | 0720 | 0721 | 0722 | 0723 | 0724 | 0725 | 0726 | 0727 | 0728 | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | 0755 | 0756 | 0757 | 0758 | 0759 | 0760 | 0761 | 0762 | 0763 | 0764 | 0765 | 0766 | 0767 | 0768 | 0769 | 0770 | 0771 | 0772 | 0773 | 0774 | 0775 | 0776 | 0777 | 0778 | 0779 | 0780 | 0781 | 0782 | 0783 | 0784 | 0785 | 0786 | 0787 | 0788 | 0789 | 0790 | 0791 | 0792 | 0793 | 0794 | 0795 | 0796 | 0797 | 0798 | 0799 | 0800 | 0801 | 0802 | 0803 | 0804 | 0805 | 0806 | 0807 | 0808 | 0809 | 0810 | 0811 | 0812 | 0813 | 0814 | 0815 | 0816 | 0817 | 0818 | 0819 | 0820 | 0821 | 0822 | 0823 | 0824 | 0825 | 0826 | 0827 | 0828 | 0829 | 0830 | 0831 | 0832 | 0833 | 0834 | 0835 | 0836 | 0837 | 0838 | 0839 | 0840 | 0841 | 0842 | 0843 | 0844 | 0845 | 0846 | 0847 | 0848 | 0849 | 0850 | 0851 | 0852 | 0853 | 0854 | 0855 | 0856 | 0857 | 0858 | 0859 | 0860 | 0861 | 0862 | 0863 | 0864 | 0865 | 0866 | 0867 | 0868 | 0869 | 0870 | 0871 | 0872 | 0873 | 0874 | 0875 | 0876 | 0877 | 0878 | 0879 | 0880 | 0881 | 0882 | 0883 | 0884 | 0885 | 0886 | 0887 | 0888 | 0889 | 0890 | 0891 | 0892 | 0893 | 0894 | 0895 | 0896 | 0897 | 0898 | 0899 | 0900 | 0901 | 0902 | 0903 | 0904 | 0905 | 0906 | 0907 | 0908 | 0909 | 0910 | 0911 | 0912 | 0913 | 0914 | 0915 | 0916 | 0917 | 0918 | 0919 | 0920 | 0921 | 0922 | 0923 | 0924 | 0925 | 0926 | 0927 | 0928 | 0929 | 0930 | 0931 | 0932 | 0933 | 0934 | 0935 | 0936 | 0937 | 0938 | 0939 | 0940 | 0941 | 0942 | 0943 | 0944 | 0945 | 0946 | 0947 | 0948 | 0949 | 0950 | 0951 | 0952 | 0953 | 0954 | 0955 | 0956 | 0957 | 0958 | 0959 | 0960 | 0961 | 0962 | 0963 | 0964 | 0965 | 0966 | 0967 | 0968 | 0969 | 0970 | 0971 | 0972 | 0973 | 0974 | 0975 | 0976 | 0977 | 0978 | 0979 | 0980 | 0981 | 0982 | 0983 | 0984 | 0985 | 0986 | 0987 | 0988 | 0989 | 0990 | 0991 | 0992 | 0993 | 0994 | 0995 | 0996 | 0997 | 0998 | 0999 | 1000 | 1001 | 1002 | 1003 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 | 1011 | 1012 | 1013 | 1014 | 1015 | 1016 | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1034 | 1035 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 | 1043 | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 | 1051 | 1052 | 1053 | 1054 | 1055 | 1056 | 1057 | 1058 | 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1066 | 1067 | 1068 | 1069 | 1070 | 1071 | 1072 | 1073 | 1074 | 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 | 1083 | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 | 1091 | 1092 | 1093 | 1094 | 1095 | 1096 | 1097 | 1098 | 1099 | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 | 1139 | 1140 | 1141 | 1142 | 1143 | 1144 | 1145 | 1146 | 1147 | 1148 | 1149 | 1150 | 1151 | 1152 | 1153 | 1154 | 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 | 1163 | 1164 | 1165 | 1166 | 1167 | 1168 | 1169 | 1170 | 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 | 1179 | 1180 | 1181 | 1182 | 1183 | 1184 | 1185 | 1186 | 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1195 | 1196 | 1197 | 1198 | 1199 | 1200 | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 | 1208 | 1209 | 1210 | 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 | 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 | 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 | 1250 | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 | 1259 | 1260 | 1261 | 1262 | 1263 | 1264 | 1265 | 1266 | 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 | 1283 | 1284 | 1285 | 1286 | 1287 | 1288 | 1289 | 1290 | 1291 | 1292 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 | 1299 | 1300 | 1301 | 1302 | 1303 | 1304 | 1305 | 1306 | 1307 | 1308 | 1309 | 1310 | 1311 | 1312 | 1313 | 1314 | 1315 | 1316 | 1317 | 1318 | 1319 | 1320 | 1321 | 1322 | 1323 | 1324 | 1325 | 1326 | 1327 | 1328 | 1329 | 1330 | 1331 | 1332 | 1333 | 1334 | 1335 | 1336 | 1337 | 1338 | 1339 | 1340 | 1341 | 1342 | 1343 | 1344 | 1345 | 1346 | 1347 | 1348 | 1349 | 1350 | 1351 | 1352 | 1353 | 1354 | 1355 | 1356 | 1357 | 1358 | 1359 | 1360 | 1361 | 1362 | 1363 | 1364 | 1365 | 1366 | 1367 | 1368 | 1369 | 1370 | 1371 | 1372 | 1373 | 1374 | 1375 | 1376 | 1377 | 1378 | 1379 | 1380 | 1381 | 1382 | 1383 | 1384 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 | 1391 | 1392 | 1393 | 1394 | 1395 | 1396 | 1397 | 1398 | 1399 | 1400 | 1401 | 1402 | 1403 | 1404 | 1405 | 1406 | 1407 | 1408 |

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

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

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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | 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 | | | | |
| 6 | 0 | 0 | 4 | 5 | 2 | 3 | 6 | 4 | 2 | 3 | 2 | 1 | 6 | 3 | 3 | 5 | 3 | 5 | 3 | 3 | 2 | 2 | 2 | 3 | 6 | 0 | | | |
| 0 | 9 | 2 | 1 | 3 | 5 | 0 | 7 | 8 | 2 | 4 | 3 | 6 | 7 | 3 | 6 | 3 | 1 | 7 | 0 | 9 | 0 | 3 | 8 | 1 | 0 | | | | |
| 3 | 4 | 2 | 5 | 5 | 9 | 3 | 0 | 1 | 3 | 3 | 5 | 7 | 9 | 0 | 8 | 9 | 9 | 4 | 5 | 5 | 5 | 3 | 2 | 0 | 0 | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | | | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 0 | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | 1 |

URINARY SYSTEM

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

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

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

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

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

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0269 | 0330 | 0217 | 0124 | 0225 | 0555 | 0599 | 0411 | 0229 | 0122 | 0222 | 0222 | 0743 | 0433 | 0313 | 0334 | 0033 | 0403 | 0357 | 0379 | 0222 | 0330 | | | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | |

ALIMENTARY SYSTEM

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

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

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

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

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

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

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|-----|-----|
| | 0
2
6
9 | 0
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3
0 | 0
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2 | 0
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8 | 0
2
4
6 | 0
2
5
7 | 0
5
9
0 | 0
5
9
0 | 0
4
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4 | 0
2
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1 | 0
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2 | 0
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3 | 0
2
2
1 | 0
7
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4 | 0
4
3
7 | 0
3
3
5 | 0
1
3
4 | 0
3
4
0 | 0
3
3
6 | 0
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7 | 0
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9 | 0
2
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3 | 0
3
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0 | | | | |
| ANIMAL ID | 0
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7
6 | 0
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1
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7 | 0
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8 | 0
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9 | 0
0
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2 | 0
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3 | 0
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6 | 0
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8 | 0
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2 | 0
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1
9
3 | 0
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1
9
4 | 0
0
1
9
5 | 0
0
1
9
6 | 0
0
1
9
7 | 0
0
1
9
8 | 0
0
1
9
9 | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 1.7 | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 20 | 2.1 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 5 | 2.8 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| Hepatocyte, Vacuolization Cytoplasmic, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | + | 4 | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | X | 2 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | 4.0 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | 2.0 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | + | 18 | 1.8 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | + | 6 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | 2.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | 1.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | + | 3 | 3.0 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | + | 49 | |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | 3.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | + | 3 | 2.0 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | + | 48 | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | + | 2 | 1.0 |

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

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

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

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

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

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

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

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

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

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

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

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0269 | 0330 | 0021 | 0012 | 0022 | 0055 | 0055 | 0044 | 0022 | 0011 | 0022 | 0022 | 0022 | 0077 | 0044 | 0033 | 0011 | 0033 | 0033 | 0044 | 0000 | 0033 | 0055 | 0077 | | 0022 |
| ANIMAL ID | 00176 | 00077 | 00078 | 00009 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 |
| Accessory Spleen | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Necrosis | | | | | | | | | | | | | 1 | | | | | | | | 1 | | | | | 3 1.0 |
| Pigmentation | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | | 2 | 2 | 2 | | 2 | 3 | 3 | 2 | 2 | 46 2.2 |
| Lymphoid Follicle, Atrophy | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 3 1.7 |
| Thymus | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | 47 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Mammary Gland | + | + | I | I | I | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | I | + | 42 |
| Duct, Ectasia | | | | | | | 3 | 2 | 1 | | | 1 | | | 2 | 1 | | | | | | | | | | 15 1.5 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | 2 | | | | | | | | 2 | | | | | | 3 1.7 |
| Ulcer | | | | 4 | | | | | | | | 3 | | | | | | | | | | | | | | 2 3.5 |
| Ulcer, Multiple | | | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 3.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | | | | | | | | | | | | | | | | X | | | | | | | | | | 1 |

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

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

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

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|-----|-------|
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 2.7 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3 1.0 |

RESPIRATORY SYSTEM

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

SPECIAL SENSES SYSTEM

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

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

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

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0730 | 0733 | 0733 | 0733 | 0733 | 0754 | 0765 | 0766 | 0777 | 0776 | 0777 | 0777 | 0777 | 0759 | 0766 | 0766 | 0749 | 0744 | 0744 | 0745 | 0775 | 0777 | 0777 | 0776 | |
| 0 MG/KG | 0022 | 0022 | 0022 | 0022 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0044 | 0044 | 0044 | 0044 | 0044 | 0045 | 0006 | 0007 | 0007 | 0007 | 0009 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

ALIMENTARY SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|------|--|
| | 0730 | 0733 | 0730 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | 0733 | |
| 0 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 002226 | 002227 | 002228 | 002229 | 002230 | 002231 | 002232 | 002233 | 002234 | 002235 | 002236 | 002237 | 002238 | 002239 | 002240 | 002241 | 002242 | 002243 | 002244 | 002245 | 002246 | 002247 | 002248 | 002249 | 002250 | | |
| Lymph Node, Mandibular Hyperplasia, Lymphoid | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymph Node, Mesenteric Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | | |
| Hemorrhage | | | | | | | | | | 1 | | | | | | | | | | | | | | 3 | 8 | | |
| Hyperplasia, Lymphoid | | | | | | | | | 3 | | 2 | | | | | | | | | | | | | | 4 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 48 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | | |
| Hematopoietic Cell Proliferation | 2 | | | | | | | 1 | | 1 | | | | | 2 | | | | 2 | | 1 | | | | 21 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | | |
| Pigmentation | 2 | 1 | 4 | 1 | 2 | | | 4 | 3 | | 3 | 3 | 2 | 3 | 3 | 4 | 4 | 3 | 3 | | 2 | | 3 | 2 | 39 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | 1 | 2 | | | | | | | | | 2 | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | 3 | | |
| Thymus | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hyperplasia | 2 | 1 | 1 | 2 | | 3 | | | 3 | 2 | | | 3 | | 2 | | 2 | | | 2 | | | | 2 | 19 | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Duct, Ectasia | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 1 | | 2 | 3 | 2 | 2 | 2 | 1 | 47 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | X | | 2 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 alpha/beta Thujone mixture
 CAS Number: THUJONEMIXAB

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

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

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

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

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

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

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

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 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
| | 0730 | 0733 | 0730 | 0741 | 0766 | 0766 | 0766 | 0711 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 0777 | 0777 | 0777 | 0777 | 0755 | | | 0777 |
| 12.5 MG/KG | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 000051 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Hemorrhage | + | + | + | A | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Large, Colon | + | + | + | A | A | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Large, Rectum | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Small, Duodenum | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Small, Ileum | + | + | + | A | A | + | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + |
| Intestine Small, Jejunum | + | + | + | A | A | + | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | X | X | X | X | X | X | X | | X | X | X | X | X | X | | X | X | X | X | X | X | X | X |
| Clear Cell Focus | X | | X | | | | | | X | X | X | X | X | | | | | X | | | | X | X |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | X | | | | | X | | X | X | | | | X | | | | |
| Infiltration Cellular, Mixed Cell | 1 | | | | | 1 | | | | | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | 1 | | 1 |
| Mixed Cell Focus | | X | | | | | | | | | | | | | | | X | | | | | X | |
| Necrosis, Focal | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | 2 | | | | | | | | 2 | 2 | | | | | | | | |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | 2 | 2 | | | | | | | |

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 Lab: SRI

| FISCHER 344 RATS FEMALE
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|--------|------|
| | 0730 | 0733 | 0730 | 0741 | 0766 | 0766 | 0766 | 0717 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 0777 | 0777 | 0777 | 0777 | | | 0755 | 0777 | 0777 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000051 | |

Tooth Degeneration +2

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

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(cont...) |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0730 | 0730 | 0730 | 0741 | 0746 | 0766 | 0766 | 0766 | 0711 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 0777 | 0777 | 0777 | 0777 | 0755 | 0777 | 0777 | 0700 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000051 | |

Pars Intermedia, Cyst
 Rathke's Cleft, Dilatation

1

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

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

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Clitoral Gland
 Hyperplasia

+
 2 1 1 2 1

Ovary
 Cyst

+
 X X

Uterus
 Hyperplasia, Cystic
 Fat, Necrosis

+
 1 2 1 1 1 3 2
 2

Vagina

+

HEMATOPOIETIC SYSTEM

Bone Marrow
 Hyperplasia

+
 4

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(cont...) | | |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|-----------------------|--|
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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
2
5
1 | |

Infiltration Cellular, Histiocyte
 Myelofibrosis

3

Lymph Node

+

+

Deep Cervical, Hyperplasia
 Deep Cervical, Pigmentation
 Mediastinal, Hemorrhage
 Mediastinal, Hyperplasia, Lymphoid
 Mediastinal, Pigmentation
 Pancreatic, Hemorrhage
 Pancreatic, Pigmentation

4

4

2

Lymph Node, Mandibular
 Hyperplasia, Lymphoid
 Pigmentation

M M

Lymph Node, Mesenteric
 Atrophy
 Hemorrhage
 Hyperplasia, Lymphoid

+
 1 2 2 4

Spleen
 Ectopic Spleen, Multiple
 Hematopoietic Cell Proliferation
 Inflammation
 Necrosis
 Pigmentation
 Lymphoid Follicle, Atrophy
 Lymphoid Follicle, Hyperplasia

+
 1 1 2 1 2 1 4 2 2 2 4 1 1
 3 2 2 3 4 4 2 2 3 2 2 1 3 3 2 3 2 3 2 1 3
 2 1

Thymus

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0730 | 0733 | 0733 | 0733 | 0742 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | |
| 12.5 MG/KG | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 50 |

ALIMENTARY SYSTEM

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

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

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

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

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|----|
| | 0730 | 0730 | 0730 | 0730 | 0742 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | 0777 | |
| 12.5 MG/KG | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 50 | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 30 |

Tooth Degeneration 1 1 2.0

CARDIOVASCULAR SYSTEM

Heart Cardiomyopathy 50 30 1.1

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Accessory Adrenal Cortical Nodule | 1 | | | 1 | 1 | | | | 1 | | | 2 | | | | | | | | | | 1 | 2 | 12 |
| Degeneration, Fatty | 1 | | 2 | | | | | | | | 2 | | 2 | | 1 | 2 | | 2 | | 1 | 1 | | 3 | 18 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 2 | | 1 | | | | | | | | | | | 2 |
| Hyperplasia, Focal | | | | 1 | | 1 | | | | | 2 | | 2 | | 2 | | | 2 | | | | | 1 | 14 |
| Hypertrophy, Focal | | | 2 | 1 | | | | | | | 1 | | | | | | | | 2 | | | | | 6 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | 1 | | | | | | | | | 5 |
| Infiltration Cellular, Lymphoid | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pigmentation | | 1 | | | | | | | | | | 2 | | | | | 1 | | | 2 | | | | 5 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | 1 | | | | | 2 | | | | | | 4 |
| Pars Distalis, Cyst | | X | | | X | | X | | | | | X | X | X | | X | | | | X | X | | X | 20 |
| Pars Distalis, Hyperplasia, Focal | | | | 2 | | | | | | | | 1 | 1 | | 2 | 1 | | | | 3 | 3 | | | 13 |

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

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

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

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

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

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

| FISCHER 344 RATS FEMALE
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0700 | 0703 | 0703 | 0703 | 0702 | 0703 | 0703 | 0703 | 0703 | 0703 | 0703 | 0705 | 0707 | 0705 | 0707 | 0704 | 0706 | 0707 | 0706 | 0707 | | 0707 | 0705 |
| ANIMAL ID | 0000 | 0000 | 0000 | 0000 | 0002 | 0002 | 0003 | 0002 | 0002 | 0002 | 0003 | 0002 | 0004 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0003 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Cyst X 2

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

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

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

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 Lab: SRI

| FISCHER 344 RATS FEMALE
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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|----|-----|-----|
| | 0730 | 0733 | 0730 | 0733 | 0742 | 0771 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Mineralization | | | 1 | 1 | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | | | | | | 24 | 1.0 | |
| Nephropathy | | | 1 | 1 | | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | | | 36 | 1.0 | |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 2.0 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |

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

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 Species/Strain: RATS/F 344/N

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 alpha/beta Thujone mixture
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 Time Report Requested: 08:56:05
 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|
| | 05779 | 07292 | 07401 | 06316 | 07627 | 04485 | 02277 | 07631 | 06711 | 06761 | 02675 | 06573 | 07289 | 06500 | 01783 | 02709 | 06197 | 06279 | 05409 | 07116 | | |
| 25 MG/KG | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 | 00300 |
| | 12345 | 67890 | 12345 | 67890 | 12345 | 67890 | 12345 | 67890 | 12345 | 67890 | 12345 | 67890 | 12345 | 67890 | 12345 | 67890 | 12345 | 67890 | 12345 | 67890 | 12345 | 67890 |

ALIMENTARY SYSTEM

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

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

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

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

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

| FISCHER 344 RATS FEMALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|-----------------------|------------------|
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| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
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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
3
0
1 | |

Mediastinal, Hemorrhage
 Mediastinal, Hyperplasia, Lymphoid
 Mediastinal, Pigmentation
 Pancreatic, Hemorrhage
 Pancreatic, Hyperplasia, Lymphoid
 Pancreatic, Pigmentation

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |

Lymph Node, Mandibular
 Lymph Node, Mesenteric
 Hemorrhage
 Hyperplasia, Lymphoid
 Necrosis
 Pigmentation

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| 1 | | | | | | | | | | 1 | | | | | 1 | | | | | | | | | | |
| | | | | | | 1 | | | | | | | | | | | | | | | | | | | |

Spleen
 Hematopoietic Cell Proliferation
 Necrosis
 Pigmentation
 Lymphoid Follicle, Atrophy
 Lymphoid Follicle, Hyperplasia
 Lymphoid Follicle, Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | |
| 4 | | | | 1 | | 2 | | | 2 | | | | | | | 2 | | | | 3 | 4 | | 2 | |
| 2 | 4 | | 3 | 4 | | 2 | 4 | 4 | 3 | 2 | 4 | 4 | | 3 | 3 | 3 | 3 | | 1 | | 3 | | 3 | 3 |
| 1 | | | 2 | | | | | 3 | | | | | | | | | | | | | | | | |

Thymus
 Necrosis

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | 1 | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

Mammary Gland
 Hyperplasia
 Malformation

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | 1 | 3 | | 3 | | | | | | | | | | | | | | | | 1 | | 1 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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TDMS No. 99037 - 05
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 alpha/beta Thujone mixture
 CAS Number: THUJONEMIXAB

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

| FISCHER 344 RATS FEMALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|-------|-------|-------|-------|-------|
| | 05779 | 07779 | 04002 | 06311 | 07427 | 04857 | 02277 | 00711 | 00711 | 00671 | 00671 | 00267 | 00267 | 00513 | 00719 | 00573 | 00120 | 00808 | 00209 | 00707 | | | 00500 | 00414 | 00716 | 00729 | 00513 |
| Duct, Ectasia | 2 | 2 | | 3 | 1 | 2 | | 2 | 2 | 1 | 3 | | 2 | | 2 | 1 | | 2 | 2 | 2 | | 2 | 3 | 4 | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst Epithelial Inclusion | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | | X | | | | | X | | | | | | | | | | | | | X | | X | | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | 1 | | 4 | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | | | 1 | 1 | | | 1 | 1 | |
| Inflammation, Chronic | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 1 | | 1 | | 1 | | | | | | 1 | | | | | | 1 | | | | | 1 | | | | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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1-4 .. Lesion qualified as:
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 Lab: SRI

| FISCHER 344 RATS FEMALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|-------|
| | 05779 | 07772 | 00770 | 03771 | 06772 | 07775 | 04774 | 02772 | 07776 | 06777 | 07771 | 06776 | 02772 | 06776 | 05775 | 07773 | 05775 | 01772 | 07776 | 05774 | 04771 | 07772 | 07777 | 05775 | | | 00770 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00000 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 00000 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 00000 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 11111 | |

Inflammation, Chronic
 Respiratory Epithelium, Hyperplasia

1

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

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

Cataract
 Edema
 Bilateral, Cataract
 Retina, Degeneration

Harderian Gland

+ M +

Hemorrhage
 Hyperplasia
 Inflammation, Chronic

2
 2
 1
 1

URINARY SYSTEM

Kidney

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

Casts Protein
 Infarct
 Inflammation, Chronic
 Mineralization
 Nephropathy
 Renal Tubule, Accumulation, Hyaline Droplet
 Renal Tubule, Necrosis

1 1 2
 1
 2 1
 1 1 1 1 1 1 1
 1
 1

Urinary Bladder

+ +

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 + .. Tissue examined microscopically
 X .. Lesion present
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 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|
| | 0390 | 0731 | 0731 | 0731 | 0652 | 0731 | 0731 | 0731 | 0331 | 0547 | 0731 | 0667 | 0661 | 0173 | 0731 | 0772 | 0722 | 0338 | 0492 | 0731 | | 0776 | 0447 | 0488 | 0714 |
| 25 MG/KG | 0026 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0000 |
| | 3326 | 3307 | 3308 | 3309 | 3300 | 3301 | 3302 | 3303 | 3304 | 3305 | 3306 | 3307 | 3308 | 3309 | 3300 | 3301 | 3302 | 3303 | 3304 | 3305 | 3306 | 3307 | 3308 | 3309 | 3300 |

ALIMENTARY SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| Centrilobular, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | 3 3.3 | | | |
| Hepatocyte, Vacuolization | 2 | | | | | | | | | | | | | | | | | | | | 3 2.7 | | | |
| Cytoplasmic Kupffer Cell, Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | 9 | | | |
| Accessory Spleen | X | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Fat, Necrosis | 2 | | | | | | | | | | | | | | | | | | | | 8 2.1 | | | |
| Pancreas | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Atrophy | 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | 23 1.2 | | | |
| Cyst | X X X X X | | | | | | | | | | | | | | | | | | | | 9 | | | |
| Acinus, Hyperplasia, Focal | 4 | | | | | | | | | | | | | | | | | | | | 2 2.5 | | | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Atrophy | 1 1 1 | | | | | | | | | | | | | | | | | | | | 5 1.0 | | | |
| Stomach, Forestomach | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Inflammation, Chronic Active | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | 2 2.0 | | | |
| Epithelium, Hyperplasia, Atypical | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Stomach, Glandular | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Erosion | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Ulcer | 3 | | | | | | | | | | | | | | | | | | | | 3 2.3 | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Cardiomyopathy | 1 | | | | | | | | | | | | | | | | | | | | 30 1.2 | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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

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

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

| FISCHER 344 RATS FEMALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|
| | 0390 | 0731 | 0731 | 0731 | 0652 | 0731 | 0731 | 0731 | 0351 | 0547 | 0731 | 0667 | 0661 | 0177 | 0731 | 0731 | 0731 | 0333 | 0479 | 0731 | | 0731 | 0664 | 0477 | 0648 |
| ANIMAL ID | 00326 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 46 |
| Accessory Adrenal Cortical Nodule | | 1 | 1 | | | | | 1 | | 2 | 1 | 1 | | 1 | 1 | | | | | | | | | | 13 1.3 |
| Degeneration, Fatty | | | | 2 | | 2 | 1 | 1 | | | 1 | 2 | 3 | | 1 | 1 | | 1 | 2 | 3 | | | | | 19 1.7 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | 4 1.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia, Focal | | | | | | 1 | 1 | | | 2 | 1 | | | 1 | | | | | | 2 | | | | | 9 1.6 |
| Hypertrophy, Focal | | | | | 1 | | | | | 1 | | | | | | | | | | | | | | | 2 1.0 |
| Necrosis | | | | | | | | | | | | 2 | | | | | | | | 1 | | | | | 6 2.7 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pigmentation | | | | | | 1 | 2 | 1 | | | | | | | | | | | | 2 | | | | | 9 1.4 |
| Pars Distalis, Angiectasis | | | | | | | 3 | 3 | | 2 | | | | | | | | | | | 2 | | | | 5 2.2 |
| Pars Distalis, Atrophy | | | | | | 1 | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Pars Distalis, Cyst | | | | X | X | X | | | X | X | X | | | | | | | X | X | | X | | | | 17 |
| Pars Distalis, Dilatation | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | 4 | | | | | | | 2 | 2 | 1 | | | | 6 2.5 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | X | | | | | | | 2 |
| Rathke's Cleft, Dilatation | | | | | | 1 | 1 | | 1 | 1 | | 1 | | 1 | | | | | | 1 | 1 | 3 | | | 13 1.2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | 44 |
| Degeneration, Cystic | | 2 | | | | | | | | | | | | 2 | | | | | | | | | | | 5 1.6 |
| Ultimobranchial Cyst | | | | | | | | | | | | | | 1 | | | | | | | | | | | 3 1.3 |

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

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

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

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

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

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

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

1-4 .. Lesion qualified as:
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TDMS No. 99037 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

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

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 Lab: SRI

| FISCHER 344 RATS FEMALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|------|---------------|---------------|
| | 0390 | 0731 | 0731 | 0731 | 0652 | 0731 | 0731 | 0731 | 0351 | 0541 | 0731 | 0661 | 0661 | 0171 | 0731 | 0731 | 0731 | 0338 | 0492 | 0731 | | 0731 | 0661 | 0471 | 0731 | 0648 | 0731 | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | | | |
| Inflammation, Chronic
Respiratory Epithelium, Hyperplasia | 2 | | 1 | | | | | | | | 2 | | | | | 1 | 1 | | | | 2 | 1 | 2 | | | | 9 1.4 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | 41 |
| Cataract | | | | | | 2 | | | | | | | | | | | | | | | 4 | | | | | | | 2 3.0 |
| Edema | | | | | | | | | | | | | | | | | | | | | 4 | 1 | | | | | | 2 2.5 |
| Bilateral, Cataract | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | 4 | 1 | | | | | | 2 2.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hemorrhage | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 4 2.0 |
| Hyperplasia | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic | 1 | | | | | | | | | 2 | | | | | | 1 | 1 | | | 2 | | | | 2 | | | | 9 1.3 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | A | 40 | |
| Casts Protein | | 1 | 2 | | | | | 1 | | | 2 | | 1 | | 1 | 1 | | | | | | | | | | | | 12 1.3 |
| Infarct | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Chronic | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Mineralization | | 1 | | 2 | 1 | | 1 | 1 | | | | | 1 | 1 | | | | | 1 | 1 | 1 | 1 | | | | | 17 1.2 | |
| Nephropathy | | 1 | 1 | 1 | | 1 | 1 | 1 | | | 1 | | 1 | | 1 | 1 | | | 1 | 2 | 1 | 1 | 1 | | 1 | | 26 1.0 | |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | 3 | | | | | | 3 | | | | | | | | | 3 | | | | | | 4 2.8 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

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

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

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

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

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

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 alpha/beta Thujone mixture
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 Lab: SRI

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

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

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

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

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

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

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

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

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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 01 | 01 | 01 | 01 | 02 | 01 | 01 | 01 | 00 | 01 | 00 | 00 | 01 | 00 | 01 | 00 | 02 | 01 | 01 | 02 | | 01 | 01 | 00 | 01 |
| 5 | 7 | 0 | 4 | 3 | 1 | 0 | 5 | 8 | 8 | 4 | 7 | 3 | 8 | 4 | 8 | 0 | 9 | 6 | 3 | 3 | 7 | 9 | 5 | 9 | |
| 6 | 7 | 2 | 3 | 9 | 0 | 6 | 3 | 7 | 3 | 4 | 1 | 4 | 7 | 8 | 9 | 4 | 0 | 3 | 5 | 0 | 7 | 3 | 8 | 9 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | |
| | 07 | 07 | 07 | 07 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | |
| | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | |

ALIMENTARY SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 Species/Strain: RATS/F 344/N

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

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

| FISCHER 344 RATS FEMALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
1
5
6 | 0
1
7
7 | 0
1
0
2 | 0
1
4
3 | 0
2
3
9 | 0
1
1
0 | 0
1
0
6 | 0
1
5
3 | 0
0
8
7 | 0
1
8
3 | 0
0
4
4 | 0
0
7
1 | 0
0
3
4 | 0
1
8
7 | 0
0
4
8 | 0
0
0
9 | 0
0
6
4 | 0
0
3
5 | 0
0
3
0 | 0
0
7
3 | 0
0
9
5 | 0
0
5
8 | 0
0
9
9 | 0
0
9
0 | |
| ANIMAL ID | 0
0
3
7
6 | 0
0
3
7
8 | 0
0
3
7
8 | 0
0
3
7
9 | 0
0
3
8
0 | 0
0
3
8
1 | 0
0
3
8
2 | 0
0
3
8
3 | 0
0
3
8
4 | 0
0
3
8
5 | 0
0
3
8
6 | 0
0
3
8
7 | 0
0
3
8
8 | 0
0
3
8
9 | 0
0
3
9
0 | 0
0
3
9
1 | 0
0
3
9
2 | 0
0
3
9
3 | 0
0
3
9
4 | 0
0
3
9
5 | 0
0
3
9
6 | 0
0
3
9
7 | 0
0
3
9
8 | 0
0
3
9
9 | 0
0
3
9
0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | 1 | | | | | | | | | | | | | | 1 | 2 | | | | | 5 1.2 |
| Cyst | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 1.0 | |
| Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 1.0 | |
| Mineralization | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Ulcer | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 2.0 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | + | 3 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | | 1 | | | | 1 | | | | | | | | | | | | | 1 | 1 | | | | 8 1.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 | |
| Artery, Necrosis | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | | | 2 | 1 | 1 | | | | | | | | | | 1 | | | | | 1 | | 1 | | 9 1.3 | |
| Degeneration, Fatty | 1 | 2 | | | | | | | | | | | | | | | | | 2 | 1 | | | | 9 1.3 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Lab: SRI

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 Lab: SRI

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

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

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

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

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

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

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