

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

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

ALIMENTARY SYSTEM

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

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+ .. Tissue examined microscopically

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I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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DAY ON TEST	FISCHER 344 RATS MALE																									ANIMAL ID	males (cont...)
	0656	0367	0674	0163	0675	0770	0779	0677	0772	0773	0773	0773	0770	0772	0772	0779	0779	0365	0688	0733	0733	0733	0733	0731	0774		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	3	6	1	6	7	7	6	7	7	7	7	7	7	7	7	7	3	6	7	7	7	7	7	7	5	4	
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	0	2	9	9	6	9	0	0	0	0	0	0	6	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	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	0		
Cardiomyopathy	2	1	2	2	1	1	1	2	1	1	1	1	1	2	2	1	1	1	1	1	1	2	2	2			
Thrombosis																									X		

ENDOCRINE SYSTEM

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

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	0656	0367	0674	0163	0675	0770	0776	0677	0779	0770	0776	0770	0772	0773	0773	0020	0222	0229	0356	0683	0733	0733	0033	0033	0031			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	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosis																												
Hyperplasia																												
Duct, Ectasia	3		2																									
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				1	2	1	
Inflammation, Chronic																													
Metaplasia, Osseous																													
Alveolar Epithelium, Hyperplasia																													
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																									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		
	6	3	6	1	6	7	7	6	7	7	7	7	7	7	7	7	7	7	3	6	7	7	7	7	7	
	5	6	7	6	1	3	2	7	2	3	3	3	0	2	2	2	2	5	8	3	3	3	3	1	4	
	6	7	4	3	5	0	9	7	9	0	0	0	2	9	9	9	6	9	0	0	0	0	0	6	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	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	
Foreign Body				2		2													1		1		2			
Inflammation, Chronic						1								1					2		1		2			
Goblet Cell, Hyperplasia																							2			
Respiratory Epithelium, Hyperplasia						1								1					1							
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute																										
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cataract										1							1			3			1			
Edema																										
Bilateral, Cataract																										
Retina, Degeneration																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal																3										
Inflammation, Chronic																							1			
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Casts Granular																										
Casts Protein	1		1		1								1						1		1			1		
Cyst																										
Hydronephrosis																										
Infarct					3																			2		
Mineralization				1	1			1									1		1	1			1			
Nephropathy	1	1	1		2	1	2	2	4	1	2	1	1	1	1	1	1	1	1	1	1	2	1	2		
Artery, Thrombosis																										

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

males
(cont...)

Papilla, Necrosis
 Renal Tubule, Accumulation, Hyaline Droplet

4

Urinary Bladder

+ +

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| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * 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 | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Perforation | | | | X | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Intestine Large, Cecum Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 48 | |
| Inflammation, Acute | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Intestine Large, Colon Edema | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | 44 | |
| | 4 | | | | | | | | | | | | | | 2 | | | | | | | | | | | 2 | |
| 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 | |
| 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 | | |
| 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 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | 0709 | | 0709 | 0709 | | |
| ANIMAL ID | 00026 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 |
| Infiltration Cellular, Mixed Cell
Mixed Cell Focus | | 1 | 1 | | | 1 | | | | 1 | | | | | 1 | 1 | 1 | | 1 | 2 | | 1 | | | |
| Bile Duct, Hyperplasia
Hepatocyte, Vacuolization Cytoplasmic | 3 | 1 | 2 | 1 | | 2 | 3 | 3 | | 1 | 2 | 3 | 4 | 2 | | | 2 | 3 | 4 | 3 | 3 | 2 | 2 | 2 | 2 |
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Atrophy
Cyst
Acinus, Hyperplasia, Focal | 2 | X | X | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands
Atrophy
Inflammation, Acute
Duct, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach
Edema
Erosion
Ulcer
Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
Erosion
Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

* .. 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
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| Cardiomyopathy | 1 | 1 | 2 | 2 | 1 | 2 | | | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | 1 | 1 | | 2 | 1 | 44 |
| Thrombosis | | | | | | | | | | | | | | | | X | | | | | | X | | 3 | |

ENDOCRINE SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99037 - 05
 Test Type: CHRONIC
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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 MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|-----|-----|
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| 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 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 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 | | 23 | 1.3 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Germinal Epithelium, Atrophy | 4 | | | | | | | | | | | | | | | | | | | 2 | | | | | | 5 | 2.2 | |
| Interstitial Cell, Hyperplasia | | | | 1 | | | | | 2 | | 1 | | | | | | | | | | | | | 1 | | 9 | 1.3 | |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 99037 - 05
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 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 | | | | |
| ANIMAL ID | 00026 | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 | 00026 | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 19 2.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.6 |
| Thymus | I | + | + | M | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | |

INTEGUMENTARY SYSTEM

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99037 - 05
 Test Type: CHRONIC
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| FISCHER 344 RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|--|
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| 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 | 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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 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
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 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 | | |
| Foreign Body | | | | 1 | | | | | | 1 | | 2 | 2 | | | | | | 2 | | | | 2 | | | 11 1.6 | |
| Inflammation, Chronic | 1 | | | 1 | | | | | | 1 | 1 | 3 | 2 | | | | | | 3 | | | | 2 | | | 13 1.6 | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | | | | 2 1.5 | |
| Respiratory Epithelium, Hyperplasia | 2 | | | | 1 | | | | | 1 | 1 | 2 | 2 | | | | | | 2 | 2 | | 1 | 1 | | | 13 1.4 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Acute | | | | 3 | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 49 | |
| Cataract | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | 6 1.3 | |
| Edema | | | | | | | | | | | | 3 | | | | | | | | | | | | | | 1 3.0 | |
| Bilateral, Cataract | | | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 4.0 | |
| Retina, Degeneration | | | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 4.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Inflammation, Chronic | | | | | 1 | | | | | | | | | | | | | | 1 | | | | | | | 3 1.0 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 48 | |
| Casts Granular | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Casts Protein | | 2 | 2 | | | 1 | 1 | 1 | | 1 | 1 | | 1 | | | 1 | | | | | | 1 | | 1 | | 18 1.1 | |
| Cyst | | | | | | | | | | | X | | | | | | | | | | | | | | | 1 | |
| Hydronephrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 3 2.3 | |
| Mineralization | 1 | | 1 | | | 1 | | | | 1 | | | 1 | | 1 | 1 | | | 1 | 1 | | | 1 | | 17 1.0 | | |
| Nephropathy | 4 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | | 1 | 2 | 1 | 2 | 1 | 1 | 45 1.5 | |
| Artery, Thrombosis | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 | |

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

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

TDMS No. 99037 - 05

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

alpha/beta Thujone mixture

CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010

Time Report Requested: 08:56:05

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

Lab: SRI

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
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TDMS No. 99037 - 05
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 alpha/beta Thujone mixture
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/18/2010
 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 | 071637 | 064719 | 045729 | 006729 | 007729 | 007729 | 007729 | 007729 | 007729 | 007729 | 007729 | 006729 | 007729 | 007729 | 007729 | 007729 | 007729 | 006729 | 007729 | 006729 | 007729 | males
(cont...) |
| | 12.5 MG/KG | ANIMAL ID | 000511 | 000512 | 000513 | 000514 | 000515 | 000516 | 000517 | 000518 | 000519 | 000520 | 000521 | 000522 | 000523 | 000524 | 000525 | 000526 | 000527 | 000528 | 000529 | 000530 | |

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 | |
| 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 | |
| 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 |

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

| FISCHER 344 RATS MALE
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------------|-------|-------|
| | 07163 | 06477 | 05762 | 07779 | 06779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | 07779 | | | 07779 | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | 3 | 2 | | | 3 | | | | | | | | | | | | 1 | | | | | | | | 2 | |
| Hepatocyte, Vacuolization Cytoplasmic, Focal Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | 2 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | 1 | 1 | 2 | | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | 2 | 2 | | | | 1 | 2 | 2 | | | | | | | 3 |
| Cyst | X | | X | | X | X | X | X | X | | | | | | | | | X | X | | X | | | | | | | X |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | 2 | 3 | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | 3 2 1 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 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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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

| 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
0 | 07
02
9 | 06
07
8 | 07
01
0 | 07
03
1 | 06
07
0 | 07
03
1 | | |
| 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
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61 | 00
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62 | 00
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63 | 00
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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 | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 alpha/beta Thujone mixture
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Date Report Requested: 08/18/2010
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 Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Atrophy | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X | | X |
| Pars Distalis, Hyperplasia, Focal | 3 | | | 2 | | 2 | | | | | | | | 2 | | | | 1 | | | | | | | 2 | | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Pars Intermedia, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rathke's Cleft, Dilatation | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | | | | | | | | | | | | | | | | 1 | | | | 1 | | | | | | | 1 |
| Ultimobranchial Cyst | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Follicular Cell, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

Tissue NOS +

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Penis | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | 2 | | | | | | | | | | 2 | 2 | | | | | | | 2 | | | 2 | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
| | 0
7
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6 | 0
6
0
3 | 0
4
7
7 | 0
5
1
9 | 0
7
2
9 | 0
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6
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9 | 0
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6 | 0
7
2
9 | 0
6
7
6 | 0
7
2
9 | | |
| Inflammation, Chronic Mineralization | | | | | 2 | | 2 | 2 | | | | 4 | 2 | | | 2 | 1 | | 1 | | 4 | | 2 | 3 | 2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| Epithelium, Hyperplasia | | | | 2 | 1 | | 2 | 1 | | | | 2 | 1 | | | 1 | | | | | 3 | | 2 | 2 | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Germinal Epithelium, Atrophy | | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | 1 | | | | | | | | | 1 | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | 3 | | | | | | | | | | | | | | | 2 | | | | | | | | 2 | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | + | | + | | + | | | | | | + | | | | | | | | + | | + | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | M | + | + | | |

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

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

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

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

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|---|--|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | | | |
| 12.5 MG/KG | 7 | 6 | 4 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 0 | | | | |
| | 1 | 0 | 7 | 1 | 2 | 6 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 7 | 2 | 3 | 9 | 3 | 2 | 1 | 0 | 1 | 3 | 1 | 2 | 0 | | |
| | 6 | 3 | 7 | 9 | 9 | 2 | 9 | 9 | 9 | 0 | 0 | 0 | 9 | 7 | 6 | 0 | 9 | 0 | 9 | 6 | 8 | 7 | 0 | 0 | 9 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 0 | | |
| Hemorrhage | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Fibrosis | | | | | | | | | | | | | | | | | 3 | | | | | | 2 | | | | | |
| Hematopoietic Cell Proliferation | 3 | | 2 | | | | | | | | | | | | | | | | | | | 2 | | 4 | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Pigmentation | 2 | | 1 | | 1 | | 1 | | 2 | 1 | 1 | | | | | 1 | 2 | 2 | | | | 2 | | | 1 | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Lymphoid Follicle, Hyperplasia | 2 | | | | | | | | 2 | | | | 1 | | | | | | | | | | | | 1 | | | |
| Thymus | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | M | + | + | + | M | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Duct, Ectasia | 1 | 1 | | | 1 | 2 | 2 | 2 | 1 | | | | 3 | 2 | 1 | | 1 | 1 | | | 1 | 1 | 1 | 2 | | 1 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hair Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

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

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

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

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

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | | | | | | X | | | | | | | | X | | | | | | | | | |
| Pigmentation | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | + | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | + | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

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

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TDMS No. 99037 - 05
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 alpha/beta Thujone mixture
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Date Report Requested: 08/18/2010
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 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | |
|------------------------------|------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|----|----|----|----|----|----|
| | | 07 | 06 | 04 | 05 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 02 | 07 | 07 | 07 | 06 | | 07 | 06 | 07 | 06 | 07 | 06 |
| FISCHER 344 RATS MALE | ANIMAL ID | 11 | 10 | 07 | 01 | 02 | 06 | 02 | 02 | 02 | 03 | 03 | 03 | 02 | 07 | 02 | 03 | 09 | 03 | 02 | 01 | 00 | 01 | 03 | 01 | 03 | 01 | 02 |
| | 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 | 00 | 00 | 00 | 00 | 00 | 00 |

Respiratory Epithelium, Hyperplasia

1 1 2 1 2 2

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ +

Cataract

2 4 3 1 1 1

Edema

2

Hemorrhage

Inflammation, Chronic

2

Bilateral, Cataract

1

Retina, Degeneration

3 3

Harderian Gland

+ +

Hyperplasia, Focal

1

Inflammation, Chronic

Pigmentation

Lacrimal Gland

+

Zymbal's Gland

URINARY SYSTEM

Kidney

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

Casts Protein

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

Cyst

X

X

X

Hydronephrosis

3

Infarct

3

Inflammation, Suppurative

4

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

| FISCHER 344 RATS MALE
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|------------------|
| | 0
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6
0
3 | 0
4
7
7 | 0
5
1
9 | 0
7
2
9 | 0
6
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9 | 0
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9 | 0
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9 | 0
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7
6 | 0
6
7
8 | 0
7
1
0 | 0
7
0
1 | | | 0
6
3
0 | 0
7
1
7 | 0
6
7
7 | 0
7
3
4 |
| Mineralization | 2 | 2 | 1 | | 2 | | 2 | | 1 | | 1 | 1 | 1 | 2 | | 2 | 1 | 2 | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | | |
| Nephropathy | 1 | | | | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | | 2 | 1 | 2 | 2 | 3 | 1 | | 3 | 1 | 2 | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|--------|
| | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | | 0677 | 0677 | | | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Hepatocyte, Vacuolization Cytoplasmic | | 3 | | | | 4 | 2 | | | | 3 | | | | 3 | | | | | | | | | | 10 2.6 | |
| Hepatocyte, Vacuolization Cytoplasmic, Focal | | | | | | | | | 1 | | | | | | | | | | | | | | | | 2 1.0 | |
| Kupffer Cell, Pigmentation | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 10 | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 9 1.9 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Atrophy | 2 | 4 | 1 | 2 | 1 | 2 | | | | 1 | 1 | 1 | | | 1 | | 2 | 2 | 1 | | 3 | 3 | 4 | 1 | 2 | 35 1.9 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 25 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.3 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 12 2.2 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 6 1.7 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 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
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 alpha/beta Thujone mixture
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Date Report Requested: 08/18/2010
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 Lab: SRI

| 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 | 0677 | 0677 | 0677 | |
| ANIMAL ID | 00076 | 00076 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | |

Ulcer 3 5 2.6

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|--|---|---|---|---|---|--|---|---|---|---|---|---|--|---|---|---|----|-----|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Accessory Adrenal Cortical Nodule | | | 1 | | 1 | | 1 | | | | 1 | | 1 | | | | | 2 | 1 | | | | 2 | | 19 | 1.2 |
| Degeneration, Fatty | 1 | 2 | | | 2 | 3 | | | | | 3 | 1 | 2 | | 1 | | 2 | 1 | 1 | | | 1 | | | 28 | 1.7 |
| Hematopoietic Cell Proliferation | | | | | | | | | | 2 | | | | | | | | | | | | | | | 2 | 1.5 |
| Hyperplasia, Focal | | | | | | | | | 2 | | | 2 | | | | | | 1 | | 1 | | | | | 11 | 1.4 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 1.3 |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hyperplasia | 3 | 1 | | | 1 | | 3 | | | | 1 | 1 | 4 | | 1 | 1 | | 1 | | 1 | | | 1 | 3 | 25 | 1.9 |
| Infiltration Cellular, Lymphocyte | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Pigmentation | | 2 | | | | | | | | | | | | | 2 | | | | | | | | | 1 | 6 | 1.7 |

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

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|------------|------------|----------|------------|
| DAY ON TEST | | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | | | | | |
| FISCHER 344 RATS MALE | | 7 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 9 | 9 | 1 | 2 | 0 | 2 | 5 | 2 | 8 | 2 | 2 | 0 | 2 | 6 | | | | | |
| 12.5 MG/KG | | 7 | 6 | 9 | 9 | 0 | 6 | 6 | 0 | 9 | 9 | 6 | 9 | 2 | 9 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 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 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
| Pars Distalis, Angiectasis | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | | | |
| Pars Distalis, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| Pars Distalis, Hyperplasia, Focal | 1 | 2 | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1 | X | 13 | 1.8 | | |
| Pars Intermedia, Angiectasis | 2 | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.5 | | | |
| Pars Intermedia, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| Rathke's Cleft, Dilatation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 1.0 | | | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | | | |
| C-cell, Hyperplasia | 1 | | 1 | | 1 | 3 | | | | | | | | | | | | | | | | | | | | 3 | 4 | 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 | | | 2 | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | 2 | 2 | 19 | 2.1 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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| FISCHER 344 RATS MALE
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0677 | 0662 | 0672 | 0672 | 0661 | 0662 | 0661 | 0660 | 0679 | 0679 | 0651 | 0677 | 0677 | 0677 | 0657 | 0676 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0668 | |
| 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 | |
| Inflammation, Chronic Mineralization Necrosis Epithelium, Hyperplasia | 4 | | | | | | 1 | | | | | 1 | | | | 1 | | 4 | | | 1 | 1 | 1 | 20 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.0 | |
| | 2 | 2 | | | | | 1 | | | | | | | | 1 | | 2 | | | | 1 | 1 | | 17 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.6 | |
| Seminal Vesicle Hyperplasia Inflammation, Acute Inflammation, Chronic Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.0 | |
| Testes Germinal Epithelium, Atrophy Interstitial Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | 4 | | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.6 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Hyperplasia Myelofibrosis Necrosis Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 7 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.7 | |
| | 2 | 2 | | | | | 2 | | | | | | | | | | | | | | | | | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| Lymph Node Mediastinal, Hyperplasia, Lymphoid Pancreatic, Hyperplasia, Lymphoid | M | | | | | + | + | | | | + | + | | | + | | | | | | | + | 14 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Lymph Node, Mesenteric Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4.0 | |

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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 | 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 | 0076 | 0076 | 0076 | 0076 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|-----|-----|
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 3.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3 | 3.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | 2.9 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.5 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 1.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1.6 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Mammary Gland | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Duct, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 1.6 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3 | 3.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Hair Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | | 6 |
| 12.5 MG/KG | 7 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 9 | 1 | 2 | 0 | 2 | 5 | 2 | 8 | 2 | 2 | 2 | 0 | 2 | |
| | 7 | 6 | 9 | 9 | 0 | 6 | 6 | 0 | 9 | 9 | 6 | 9 | 2 | 9 | 6 | 9 | 9 | 9 | 9 | 9 | 2 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 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 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Femur, Osteopetrosis | | 3 | | | | 1 | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Pigmentation | | | | | | | | | | | | | | | | | X | | | | | | X | 1 1.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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 | | | | 43 1.0 |
| Inflammation, Chronic | | | | | | 1 | | | | | | | | | | 1 | | | | 1 | | | 2 | 6 1.3 |
| Metaplasia, Osseous | | | | | | | | | | | | | 1 | | 2 | | | | 1 | | | | | 5 1.4 |
| Alveolar Epithelium, Hyperplasia | 1 | 2 | | | | | | 1 | 2 | | 1 | | | 2 | 2 | | | 1 | | | | | | 17 1.2 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 8 1.8 |
| Inflammation, Chronic | 3 | | | | | | | 1 | | | | | | | | | 1 | | | | | | | 15 1.6 |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* .. 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
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | |
| ANIMAL ID | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | 00076 | |
| Respiratory Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | 7 1.6 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| 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 |

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

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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

alpha/beta Thujone mixture
 CAS Number: THUJONEMIXAB

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| 25 MG/KG | 0
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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 +

1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + + A + + + A + + + + M + A + + + + + + A + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + A A + A + A + + + + A + A + + + + + + A + A + A + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum
Inflammation, Acute | + A A + A + A + + + + A + A + A + + + + A A A + A + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + A A + A + A + + + + A + A + A + + + + A A + + A + | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mixed Cell | 1 1 1 2 1 1 1 X 1 1 1 1 1 1 1 1 1 1 1 2 2 1 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 4 2 1 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | X | | | | | | | | | | | | | | | | | | | | | | | | |

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

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...) |
|-----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 25 MG/KG | 5 | 2 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 4 | 6 | 6 | 6 | 5 | 7 | 7 | 7 | 4 | 6 | 4 | 7 | 7 | 6 | |
| | 0 | 7 | 3 | 3 | 5 | 3 | 7 | 2 | 2 | 2 | 7 | 0 | 5 | 0 | 5 | 9 | 0 | 2 | 2 | 5 | 1 | 8 | 3 | 0 | 8 | |
| | 0 | 0 | 5 | 0 | 5 | 0 | 7 | 9 | 9 | 9 | 7 | 7 | 2 | 8 | 2 | 8 | 6 | 9 | 9 | 0 | 5 | 5 | 0 | 8 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

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 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 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...) | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|--|
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0
8 | | | 0
6
8
9 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | 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 | | |
| 5 | 2 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 4 | 6 | 6 | 6 | 5 | 7 | 7 | 4 | 6 | 4 | 7 | 7 | 6 | 6 | 0 | 0 |
| 0 | 7 | 3 | 3 | 5 | 3 | 7 | 2 | 2 | 2 | 7 | 0 | 5 | 0 | 5 | 9 | 0 | 2 | 2 | 5 | 1 | 8 | 3 | 0 | 8 | 0 | 0 |
| 0 | 0 | 5 | 0 | 5 | 0 | 7 | 9 | 9 | 9 | 7 | 7 | 2 | 8 | 2 | 8 | 6 | 9 | 9 | 0 | 5 | 5 | 0 | 8 | 9 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 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 | 1 | 1 |

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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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 | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0500 | 0501 | 0502 | 0503 | 0504 | 0505 | 0506 | 0507 | 0508 | 0509 | 0510 | 0511 | 0512 | 0513 | 0514 | 0515 | 0516 | 0517 | 0518 | 0519 | 0520 | 0521 | 0522 | 0523 | 0524 | | | 0525 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0001 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0002 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0003 | |
| | 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 | 2 | 0004 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 0005 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|--|---|---|--|---|---|--|---|--|---|---|---|--|--|--|--|--|
| Mammary Gland
Duct, Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 2 | 2 | 1 | | 1 | 3 | 2 | 1 | | 2 | 3 | | 2 | 2 | | 2 | | 1 | 1 | 1 | | | | | |
| Skin
Cyst Epithelial Inclusion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone
Femur, Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brain
Compression | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung
Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 BLANK .. Not examined microscopically
 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
7
2
9 | 0
4
5
0 | 0
6
1
5 | | | 0
4
8
0 | 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
0
1
0
1 | |

Metaplasia, Osseous
 Alveolar Epithelium, Hyperplasia

2
 1 1 2 2 1 1 2 1

Nose
 Foreign Body
 Inflammation, Chronic
 Goblet Cell, Hyperplasia
 Respiratory Epithelium, Hyperplasia

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

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye
 Cataract
 Bilateral, Cataract

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

Harderian Gland
 Inflammation, Chronic

+
 1 1 1

Lacrimal Gland

+

Zymbal's Gland

+

URINARY SYSTEM

Kidney
 Casts Protein
 Mineralization
 Nephropathy
 Transitional Epithelium, Hyperplasia

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

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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0500 | 0501 | 0502 | 0503 | 0504 | 0505 | 0506 | 0507 | 0508 | 0509 | 0510 | 0511 | 0512 | 0513 | 0514 | 0515 | 0516 | 0517 | 0518 | 0519 | 0520 | 0521 | 0522 | 0523 | | | 0524 |
| 25 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0011 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0022 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0033 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0044 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0055 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0066 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0077 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0088 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0099 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0100 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0101 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0102 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0103 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0104 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0105 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0106 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0107 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0108 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0109 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0110 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0111 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0112 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0113 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0114 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0115 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0116 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0117 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0118 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0119 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0120 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0121 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0122 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0123 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0124 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0125 | |

Urinary Bladder

+ +

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

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

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

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

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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|------------------|------------------|------------------|
| | 0
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
8 | 0
6
3
7 | 0
6
6
8 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 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 |
| Intestine Large, Cecum | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | 40 |
| Intestine Large, Colon | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | A | + | + | A | 33 |
| Edema | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Large, Rectum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | 41 |
| Intestine Small, Duodenum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | A | 37 |
| Intestine Small, Ileum | A | + | A | + | + | + | A | + | + | + | + | M | + | + | + | + | A | + | A | + | A | + | + | 30 |
| Inflammation, Acute | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Intestine Small, Jejunum | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | A | + | A | + | + | A | 33 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus | | | | | | | | | | | X | X | X | X | | X | X | | X | X | | X | X | 25 |
| Clear Cell Focus | | | | | | | | | | | X | | X | X | | X | | | X | X | | | | 11 |
| Degeneration, Cystic | 1 | | | | | | | | | | | 2 | | | | | 1 | | | | | | | 4 1.5 |
| Eosinophilic Focus | | | | | X | | | | | | | | | | | X | | | X | | | | | 4 |
| Hepatodiaphragmatic Nodule | | | | | | | | X | X | | | | | | | | | | | | | | | 5 |
| Infiltration Cellular, Mixed Cell | | | 1 | | | | | | | 1 | | | 1 | 1 | | | | | 1 | 1 | | | | 18 1.1 |
| Mixed Cell Focus | | | | | X | | | | | | | | | | | | | | | | | X | | 3 |
| Bile Duct, Hyperplasia | 3 | 2 | | | | 2 | 3 | | 2 | 3 | 3 | 1 | 3 | | 1 | 3 | 3 | 2 | 2 | | 1 | 4 | 3 | 40 2.4 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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| FISCHER 344 RATS MALE
25 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 | 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 | |
| | 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 | 4 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | 3 | | | 4 | | 2 | | | 3 | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic, Focal | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | + | | | | + | + | | | + | | + | + | | | + | + | + | | | |
| Accessory Spleen | | | | | | | | | X | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | 2 | | | | | | | | 1 | | 3 | | | | | 2 | 2 | 3 | | |
| Pancreas | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | 2 | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 1 | 3 | | 3 | 2 | | | | | |
| Cyst | | | | | X | X | X | | X | | | | | X | X | X | | | | | X | X | | |
| Acinus, Hyperplasia, Focal | | | | | | 4 | | | | | 2 | | | | 2 | | | | 3 | | | | | |
| Salivary Glands | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | 1 | 1 | 2 | | 2 | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Stomach, Forestomach | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | 2 | | 1 | | | 1 | 4 | 1 | | | 1 | | | 3 | | 2 | | 2 | 1 | |
| Stomach, Glandular | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | 3 | | | 2 | 3 | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | 4 | | | | | | 2 | |

CARDIOVASCULAR SYSTEM

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

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X .. Lesion present

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 Species/Strain: RATS/F 344/N

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 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
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|----------|-----|
| | 0532 | 0406 | 0173 | 0773 | 0549 | 0458 | 0004 | 0073 | 0077 | 0077 | 0077 | 0077 | 0066 | 0066 | 0077 | 0066 | 0033 | 0067 | 0037 | 0077 | 0066 | 0066 | 0066 | | | |
| ANIMAL ID | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | | | |
| Cardiomyopathy | 1 | 1 | 1 | 1 | 2 | 1 | | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 47 | 1.4 |
| Thrombosis | | | | X | | | | | | | | | | | | | X | | | | | | | | 2 | |

ENDOCRINE SYSTEM

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

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

| FISCHER 344 RATS MALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|---|--------|
| | 0532 | 0406 | 0173 | 0773 | 0549 | 0458 | 0054 | 0073 | 0077 | 0077 | 0077 | 0077 | 0066 | 0066 | 0077 | 0066 | 0036 | 0067 | 0037 | 0077 | | 0066 | 0066 | | |
| ANIMAL ID | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | | | |
| 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 | | 2 | | | | 2 | | 18 2.2 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |
| Inflammation, Chronic | | | | 1 | 1 | 1 | | | | | | 1 | | | 3 | 2 | 4 | | 4 | 2 | | 2 | 3 | 3 | 23 2.3 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | 1 | | | | 2 | 2 | 2 | | 2 | 1 | | 1 | | 1 | 18 1.3 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Acute | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | 4 | | | | | | | | | | 3 | 1 | | 3 2.7 |
| Interstitial Cell, Hyperplasia | | | 1 | | | | | | | | | | | | | 2 | | 4 | | | | | 1 | | 6 1.7 |

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 + .. Tissue examined microscopically
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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 4 | 1 | 7 | 7 | 5 | 4 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 3 | 6 | 7 | 3 | 7 | 7 | 6 | |
| 25 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

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 |
| 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 | 0404 | 0163 | 0773 | 0773 | 0549 | 0458 | 0574 | 0770 | 0770 | 0770 | 0770 | 0663 | 0663 | 0762 | 0665 | 0369 | 0362 | 0731 | 0731 | | 0663 | 0663 | | |
| ANIMAL ID | 00126 | 00078 | 00030 | 00009 | 00001 | 00002 | 00003 | 00004 | 00005 | 00006 | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | |
| Mammary Gland Duct, Ectasia | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | | | 2 | | 1 | 2 | 1 | | 1 | 2 | 1 | 3 | 1 | 3 | 2 | | | 1 | 3 | 2 | 1 | 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 | | 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

25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0532 | 0544 | 0511 | 0507 | 0507 | 0505 | 0504 | 0505 | 0507 | 0507 | 0507 | 0507 | 0507 | 0506 | 0506 | 0507 | 0506 | 0503 | 0506 | 0507 | 0503 | 0507 | 0507 | 0506 | | 0506 |
| ANIMAL ID | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| Metaplasia, Osseous | | | | 1 | 1 | | | | | | | | | | 1 | | | | | | 1 | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | 1 | | 2 | | 2 | 1 | 4 | | 1 | | 1 | 1 | | | | 1 | | 1 | 3 | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Foreign Body | | | | | | | | 1 | | | | | | | | | | 2 | | | | 1 | | 9 | | |
| Inflammation, Chronic | 1 | | | 1 | | | | 1 | | | | | | 1 | | | | 2 | | | | | | 13 | | |
| Goblet Cell, Hyperplasia | | | | | | | | | 1 | | | | | | | | | | | | 2 | 2 | | 3 | | |
| Respiratory Epithelium, Hyperplasia | | | | 2 | | | | 1 | | | | | | 2 | | | | | | | | | | 10 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | 46 | |
| Cataract | | | | | | | | | | 1 | | | | 1 | | | | | | | | 1 | | 10 | | |
| Bilateral, Cataract | | | | | 1 | | | | | | | | | | 2 | | | | | | | | | 2 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic | | 1 | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | A | + | 44 |
| Casts Protein | | | | 1 | 2 | | | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | | | | | | 2 | | 2 | 22 | |
| Mineralization | 2 | 1 | 1 | 2 | 2 | 2 | | 2 | 2 | 1 | | 2 | 2 | 2 | 2 | 1 | | 1 | | 2 | 2 | 2 | 1 | 1 | 41 | |
| Nephropathy | | | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 4 | | 1 | | 2 | 1 | 1 | 2 | 2 | 41 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 | | | | 4 | | |

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

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

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

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

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

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|
| | 05 | 04 | 01 | 07 | 07 | 05 | 04 | 05 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 06 | 03 | 06 | 07 | 03 | 07 | 07 | | 06 |
| FISCHER 344 RATS MALE | 3 | 0 | 6 | 3 | 3 | 9 | 8 | 4 | 3 | 0 | 3 | 2 | 2 | 3 | 6 | 2 | 5 | 9 | 1 | 2 | 1 | 3 | 1 | 3 | 6 |
| 25 MG/KG | 2 | 4 | 3 | 0 | 0 | 9 | 5 | 0 | 0 | 2 | 0 | 9 | 9 | 1 | 3 | 9 | 9 | 4 | 2 | 9 | 3 | 0 | 8 | 7 | 8 |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

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

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

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

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

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

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0603 | 0094 | 0042 | 0051 | 0023 | 0035 | 0060 | 0047 | 0028 | 0032 | 0011 | 0063 | 0033 | 0056 | 0033 | 0053 | 0035 | 0033 | 0022 | 0022 | 0022 | 0033 | 0036 | 0001 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0001 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0000 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0001 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 0005 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 0001 | | |

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

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

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

| FISCHER 344 RATS MALE
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------------------------|--------------------|
| | 06 | 00 | 04 | 05 | 02 | 03 | 06 | 04 | 02 | 03 | 02 | 01 | 06 | 03 | 03 | 05 | 03 | 05 | 03 | 03 | 02 | 02 | 02 | 03 | 06 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000000000000000000000000 | |
| | 6 | 0 | 4 | 5 | 2 | 3 | 6 | 4 | 2 | 3 | 2 | 1 | 6 | 3 | 3 | 5 | 3 | 5 | 3 | 3 | 2 | 2 | 2 | 3 | 6 | 000000000000000000000000 | |
| | 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 | 111111111111111111111111 | |
| | 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 | 555555555555555555555555 | |
| | 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 | 1234567890123456789012345 | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 2 | | 2 | 1 | | 2 | 2 | | | | | | 3 | 2 | | 1 | | 2 | | | | | 2 | | 2 | | |
| Centrilobular, Necrosis | | | | | | 3 | | | | | | | | | | | | | 4 | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic, Focal | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | | | | 3 | | | 1 | | | | | | 2 | | 1 | 2 | 4 | 2 | | | | | | 1 | | | |
| Cyst | | | | X | | | X | | | X | | | X | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | 2 | | | | | |
| Stomach, Glandular | + | + | A | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Necrosis, Lymphoid 2

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart

Cardiomyopathy
Hemorrhage

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 |

ENDOCRINE SYSTEM

Adrenal Cortex

Accessory Adrenal Cortical Nodule
Degeneration, Fatty
Hyperplasia, Focal
Necrosis

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | 1 | | | | | | | | | | | | | | | | | 1 | | |
| | 1 | | 2 | | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 2 | | | 1 | 1 | | | 2 | 1 | 1 | 1 |
| | | | | | | | 1 | | | | | | | | 2 | | | | | | | | | 1 |

Adrenal Medulla

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 |

Islets, Pancreatic

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Parathyroid Gland

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Pituitary Gland

Pigmentation
Pars Distalis, Angiectasis
Pars Distalis, Atrophy
Pars Distalis, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 3 | | | | | | | | | | | | | | | | | 3 |

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

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

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

alpha/beta Thujone mixture
 CAS Number: THUJONEMIXAB

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

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

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular | | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | | 4 | | | | | | | 2 | | | | | | |
| Interstitial Cell, Hyperplasia | | | | 4 | | | 2 | | | | 2 | | | | 1 | | | | | | | | 1 | 3 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 |
| Congestion | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | 1 | | 2 | | | | | | | 2 | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| 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
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|-----------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|----|----|----|----|----|
| | 06 | 00 | 04 | 05 | 02 | 03 | 06 | 04 | 02 | 03 | 02 | 01 | 06 | 03 | 03 | 05 | 03 | 05 | 03 | 02 | | | 02 | 02 | 03 | 06 | |
| | 00 | 09 | 02 | 01 | 03 | 05 | 00 | 07 | 08 | 02 | 04 | 03 | 06 | 07 | 09 | 00 | 03 | 06 | 03 | 01 | 07 | 00 | 09 | 00 | 03 | 08 | 01 |
| | 03 | 04 | 02 | 05 | 05 | 09 | 03 | 00 | 01 | 03 | 03 | 05 | 07 | 09 | 00 | 08 | 09 | 09 | 04 | 05 | 05 | 05 | 03 | 02 | 00 | 01 | 00 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 |
| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |

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

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0603 | 0044 | 0042 | 0051 | 0023 | 0033 | 0066 | 0044 | 0022 | 0033 | 0021 | 0066 | 0033 | 0055 | 0033 | 0055 | 0033 | 0033 | 0022 | 0022 | | | 0022 |
| 50 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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 |

Mineralization
Necrosis
Pigmentation

2

1

3

RESPIRATORY SYSTEM

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

SPECIAL SENSES SYSTEM

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

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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TDMS No. 99037 - 05
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 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

| 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 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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
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 alpha/beta Thujone mixture
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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
50 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0269 | 0330 | 0217 | 0124 | 0225 | 0559 | 0599 | 0411 | 0412 | 0222 | 0222 | 0222 | 0743 | 0433 | 0333 | 0134 | 0334 | 0334 | 0035 | 0337 | 0337 | 0032 | 0333 | 0230 | |
| 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 | 00200 |

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 | 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 | 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 | A | 16
1 1.0 | |
| Intestine Small, Jejunum | A | + | 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 | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|---|---|---|-----|----|-----|
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9 | 0
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6 | 0
7
9
2 | 0
3
2
3 | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 2 | 3 | 1.7 | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 2.1 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 2.8 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hepatocyte, Vacuolization Cytoplasmic, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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 M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

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

| FISCHER 344 RATS MALE
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 | 0 | 0 | 0 | | | | |
| | 2 | 3 | 2 | 1 | 2 | 2 | 5 | 5 | 4 | 2 | 1 | 2 | 2 | 2 | 7 | 4 | 3 | 1 | 3 | 3 | 4 | 0 | 3 | 4 | | 1 | 3 | 2 |
| | 6 | 3 | 1 | 7 | 4 | 5 | 9 | 9 | 1 | 1 | 9 | 3 | 1 | 8 | 1 | 6 | 3 | 3 | 3 | 4 | 0 | 3 | 5 | 7 | 9 | 2 | 2 | 3 |
| | 9 | 0 | 2 | 8 | 6 | 7 | 0 | 0 | 4 | 1 | 2 | 9 | 3 | 1 | 4 | 3 | 7 | 5 | 0 | 9 | 6 | 7 | 9 | 2 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 |

Necrosis, Lymphoid

2

2 2.0

CARDIOVASCULAR SYSTEM

Blood Vessel

+

1

Heart

Cardiomyopathy

Hemorrhage

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | | | | | 45 1.3 |
| | | | | | | | | | | 2 | 2 | | | | | | | | | | | | | | | | 2 2.0 |

ENDOCRINE SYSTEM

Adrenal Cortex

Accessory Adrenal Cortical Nodule

Degeneration, Fatty

Hyperplasia, Focal

Necrosis

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |
| 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | | | | 34 1.2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |

Adrenal Medulla

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 49 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

Islets, Pancreatic

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

Parathyroid Gland

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

Pituitary Gland

Pigmentation

Pars Distalis, Angiectasis

Pars Distalis, Atrophy

Pars Distalis, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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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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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 Lab: SRI

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|-----|-------|
| 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 | | | | | | | | 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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------------------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|-----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| 2 | 3 | 2 | 1 | 2 | 2 | 5 | 5 | 4 | 2 | 1 | 2 | 2 | 2 | 7 | 4 | 3 | 1 | 3 | 3 | 4 | 1 | 3 | 2 | 3 | 5 | 1.2 |
| 6 | 3 | 1 | 7 | 4 | 5 | 9 | 9 | 1 | 1 | 9 | 3 | 1 | 8 | 1 | 6 | 3 | 3 | 4 | 0 | 3 | 5 | 7 | 2 | 3 | | |
| 9 | 0 | 2 | 8 | 6 | 7 | 0 | 0 | 4 | 1 | 2 | 9 | 3 | 1 | 4 | 3 | 7 | 5 | 0 | 9 | 6 | 7 | 9 | 2 | 0 | 1 | 1.2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 1.0 |
| 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 | | |
| 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 | 2 | 1.0 |
| 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 | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 5 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 49 | |
| Casts Protein | | | | | | | 1 | | 1 | | | | 3 | | | 1 | | | | | | | | | 11 | 1.6 |
| Inflammation, Suppurative | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 | 1.0 |
| Mineralization | 1 | 1 | | | 1 | 1 | 2 | 1 | 2 | 1 | | 1 | | 1 | | 2 | | 2 | 1 | 2 | | 1 | 1 | 38 | 1.5 | |
| Nephropathy | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | | | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 46 | 1.3 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | 3 | | | | | | | | | | | 2 | 2.5 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | 3 | | | | | | | | | | 2 | 2.5 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

*** END OF MALE DATA ***

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

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

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

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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3 | 0
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4 | 0
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2
5 |

ALIMENTARY SYSTEM

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

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

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | + | + | | | | | + | | + | | | | + | | | | | + | | | | | | |
| | | | 3 | 2 | | | | | 3 | | 2 | | | | 2 | | | | | 2 | | | | | | |
| Pancreas
Atrophy
Cyst
Acinus, Hyperplasia, Focal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | 1 | | | | 1 | | | 3 | | 1 | 3 | 1 | 1 | 2 | 1 | | 1 | 2 | 1 | 3 | | |
| | | | | | | | | X | | X | X | | | | X | | X | X | | | | | X | | | |
| | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Salivary Glands
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | 1 | | | | | | 2 | | | 1 | | 1 | 1 | | | | 1 | | | | 1 | | |
| Stomach, Forestomach
Edema
Ulcer
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | 2 | | | | | | | | | | | | | | 1 | | | | | |
| Stomach, Glandular
Edema
Erosion
Ulcer | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Tongue
Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 alpha/beta Thujone mixture
 CAS Number: THUJONEMIXAB

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

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

Ultimobranchial Cyst
 C-cell, Hyperplasia

1

1

GENERAL BODY SYSTEM

Tissue NOS
 Fat, Mediastinum, Necrosis

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | 2 | 3 | 1 | | | | 2 | | | | | 3 | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | X | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | X | | | | | | |
| Hyperplasia, Cystic | | 3 | 3 | | 2 | | | 1 | | | | 2 | 3 | 1 | | | | 2 | 3 | | 2 | 2 |

Vagina

HEMATOPOIETIC SYSTEM

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

* .. 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
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
7
0 | 0
7
3
6 | 0
5
3
6 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
6
8
9 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | | |
| ANIMAL ID | 0
0
2
0
1 | 0
0
2
0
2 | 0
0
2
0
3 | 0
0
2
0
4 | 0
0
2
0
5 | 0
0
2
0
6 | 0
0
2
0
7 | 0
0
2
0
8 | 0
0
2
0
9 | 0
0
2
0
0 | 0
0
2
0
1 | 0
0
2
0
2 | 0
0
2
0
3 | 0
0
2
0
4 | 0
0
2
0
5 | 0
0
2
0
6 | 0
0
2
0
7 | 0
0
2
0
8 | 0
0
2
0
9 | 0
0
2
0
0 | 0
0
2
0
1 | 0
0
2
0
2 | 0
0
2
0
3 | 0
0
2
0
4 | 0
0
2
0
5 | |
| Lymph Node, Mandibular
Hyperplasia, Lymphoid | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mesenteric
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 2 | | | | | | 2 | | | | | | 1 | 2 | | | 1 | | | | | | 1 | | | |
| Hyperplasia, Lymphoid | | | | | | | 3 | | | | | | | 2 | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 2 | | 1 | 1 | | 1 | | 1 | 1 | 2 | | 1 | | 2 | | 1 | | | | 1 | | 1 | 2 | 2 | 2 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | 3 | 2 | 2 | | 3 | | 2 | 2 | 3 | 3 | 4 | 3 | 2 | | 3 | 2 | 3 | | 1 | 3 | 2 | 3 | 4 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Thymus | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrosis | | | | | | | | | | 4 | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | 1 | 1 | 2 | | | | | | | | | | | | 2 | | 3 | | 3 | 2 | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | 1 | 2 | | | 1 | | | | | | |
| Duct, Ectasia | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | X | | | | | | | | | | | | | |

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

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

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

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

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

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

Hyperkeratosis 4
 Inflammation, Chronic 1
 Epidermis, Hyperplasia 2
 Subcutaneous Tissue, Fibrosis 3

MUSCULOSKELETAL SYSTEM

Bone +
 Femur, Osteopetrosis

NERVOUS SYSTEM

Brain +
 Compression X X X
 Mineralization 2
 Pigmentation

RESPIRATORY SYSTEM

Lung +
 Infiltration Cellular, Histiocyte 1
 Inflammation, Chronic 2 2 1 1
 Alveolar Epithelium, Hyperplasia 1 1 4 1 1 1 1 1 1 1 1 1 3 1 1 1 1 1
 Nose +
 Foreign Body 1 2 1 1 1
 Inflammation, Chronic 2 2 1 1 1
 Thrombosis 1
 Goblet Cell, Hyperplasia
 Respiratory Epithelium, Hyperplasia 1 1 1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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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 | 0733 | 0754 | 0765 | 0766 | 0777 | 0776 | 0777 | 0777 | 0777 | 0759 | 0766 | 0766 | 0744 | 0744 | 0744 | 0755 | 0777 | 0777 | 0777 | 0777 | |
| 0 MG/KG | 0022 | 0022 | 0022 | 0022 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0044 | 0044 | 0044 | 0044 | 0044 | 0055 | 0077 | 0077 | 0077 | 0077 | 0066 |
| ANIMAL ID | 67 | 78 | 89 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Diverticulum | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Intestine Large, Cecum | + | + | + | + | + | A | + | + | + | + | + | + | + | M | + | A | A | A | + | A | + | + | + | A | 41 |
| Intestine Large, Colon | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | A | A | A | + | A | + | + | + | A | 41 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | A | + | + | + | + | + | 46 |
| Intestine Small, Duodenum | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | A | A | + | A | + | + | + | + | 44 |
| Intestine Small, Ileum | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | A | A | A | + | A | + | + | + | A | 41 |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | A | A | A | + | A | + | + | + | A | 41 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 | 2.0 |
| Basophilic Focus | X | X | X | X | X | | X | X | X | X | X | | | X | X | X | X | X | X | X | X | X | X | 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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M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 99037 - 05
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 Lab: SRI

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | |
| ANIMAL ID | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | |
| | 67 | 88 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | |

ENDOCRINE SYSTEM

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

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

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

Ultimobranchial Cyst
 C-cell, Hyperplasia

1

2 1.0
 1 1.0

GENERAL BODY SYSTEM

Tissue NOS
 Fat, Mediastinum, Necrosis

+
 2

1
 1 2.0

GENITAL SYSTEM

Clitoral Gland
 Cyst
 Hyperplasia

+ +

50
 2
 9 2.2

Ovary
 Cyst

+
 X X

50
 3

Uterus
 Cyst
 Hyperplasia, Cystic

+
 2 1 2 1 2 1 4 2 4 3

50
 1
 22 2.2

Vagina

+ +

2

HEMATOPOIETIC SYSTEM

Bone Marrow
 Hyperplasia
 Infiltration Cellular, Histiocyte

+
 2 3 4

50
 4 3.3
 1 4.0

Lymph Node

+ +

7

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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 6 | 4 | 4 | 4 | 5 | 7 | 7 | 7 | 7 | 6 | |
| 3 | 3 | 3 | 3 | 3 | 4 | 5 | 2 | 3 | 3 | 7 | 3 | 3 | 7 | 3 | 6 | 9 | 6 | 5 | 4 | 3 | 3 | 3 | 3 | 5 | |
| 0 | 0 | 0 | 0 | 0 | 5 | 2 | 3 | 0 | 7 | 0 | 0 | 0 | 9 | 1 | 2 | 9 | 2 | 2 | 7 | 1 | 1 | 1 | 1 | 9 | |
| ANIMAL ID | 0 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 1.0 |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | |
|-------------------------------------|---------------|
| Lung | 50 |
| Infiltration Cellular, Histiocyte | 46 1.0 |
| Inflammation, Chronic | 10 1.5 |
| Alveolar Epithelium, Hyperplasia | 23 1.3 |
| Nose | 50 |
| Foreign Body | 7 1.3 |
| Inflammation, Chronic | 11 1.5 |
| Thrombosis | 1 |
| Goblet Cell, Hyperplasia | 1 1.0 |
| Respiratory Epithelium, Hyperplasia | 5 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
0 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 | | | | | | |
| Trachea | 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 | 50 | |
| SPECIAL SENSES SYSTEM | 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 | | |
| Eye | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | |
| Hemorrhage | 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 | 1 3.0 |
| Inflammation, Chronic | 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 | 2 | 1 2.0 |
| Harderian Gland | 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 | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 1.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | A | | A | | | | | | | | | A | | A | | A | | | | | 44 | |
| Casts Protein | | | | | | | | | 3 | | | | | 2 | 2 | 2 | | | | | | | | | | 14 | 1.4 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Infarct | | | | | | | | | 3 | 2 | | | | | | | | | | | | | | | | 2 | 2.5 |
| Inflammation, Suppurative | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mineralization | 1 | 1 | 1 | | 1 | | | | | | | 1 | 1 | 1 | | | | 1 | | | 1 | | 1 | | | 16 | 1.1 |
| Nephropathy | 1 | 1 | 1 | 1 | | | 2 | | 3 | 1 | 1 | 1 | 2 | 2 | 2 | | | 1 | | 1 | 1 | 1 | 1 | | | 33 | 1.2 |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 2 | 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | 3 | 1 | | | | | | | | | | | | | | | | 2 | 2.0 |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |

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

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

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0730 | 0733 | 0730 | 0741 | 0766 | 0766 | 0766 | 0711 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 0777 | 0777 | 0777 | 0777 | 0755 | 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 | |
| ANIMAL ID | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | |

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 |
| Clear Cell Focus | X | | X | | | | | | X | X | X | X | X | | | | X | | | | X | X |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule Infiltration Cellular, Mixed Cell | 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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 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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 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
| | 0730 | 0733 | 0730 | 0741 | 0766 | 0766 | 0766 | 0717 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 0777 | 0777 | 0777 | 0777 | | | 0755 |
| 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 | 00 | 00 |
| | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 |

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 |
| Pars Distalis, Hyperplasia, Focal | | | | 2 | 4 | | | | | 1 | | | | | | | | | 2 | | | | 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
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

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

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

| FISCHER 344 RATS FEMALE
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0730 | 0733 | 0730 | 0742 | 0766 | 0766 | 0766 | 0711 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0755 | 0777 | 0777 | 0777 | 0777 | 0755 | 0777 | 0777 | 0700 | 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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 M .. Missing tissue
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 alpha/beta Thujone mixture
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 First Dose M/F: 06/09/03 / 06/09/03
 Lab: SRI

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

4

4

Mediastinal, Pigmentation

2

Pancreatic, Hemorrhage

Pancreatic, Pigmentation

Lymph Node, Mandibular

Hyperplasia, Lymphoid

Pigmentation

M M

Lymph Node, Mesenteric

Atrophy

Hemorrhage

Hyperplasia, Lymphoid

+ +

1

2

2

4

Spleen

Ectopic Spleen, Multiple

Hematopoietic Cell Proliferation

Inflammation

Necrosis

Pigmentation

Lymphoid Follicle, Atrophy

Lymphoid Follicle, Hyperplasia

+ +

1

1

2

1

2

1

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4

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3

Thymus

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

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

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

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

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

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

Cyst X

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

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

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

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

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

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

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

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

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

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

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

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

ALIMENTARY SYSTEM

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

* .. 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
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0730 | 0730 | 0730 | 0730 | 0742 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0755 | 0777 | 0755 | 0777 | 0744 | 0766 | 0777 | 0766 | 0777 | | 0777 | 0755 |
| ANIMAL ID | 00276 | 00277 | 00278 | 00279 | 00280 | 00281 | 00282 | 00283 | 00284 | 00285 | 00286 | 00287 | 00288 | 00289 | 00290 | 00291 | 00292 | 00293 | 00294 | 00295 | 00296 | 00297 | 00298 |
| Mesentery | | | + | | | | | | + | + | | | | + | | | | | + | | + | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | X | | | | |
| Fat, Necrosis | | | 2 | | | | | | 2 | 2 | | | | 3 | | | | | | | 3 | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 2 | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | 1 | | | | 1 | 1 | | 3 | | | 1 | 2 | 1 | | 1 | 1 | 1 | | 1 | 1 | 2 |
| Cyst | | | | | | X | | X | | X | | | | | X | X | | | | X | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 1 | 1 | | | | | 1 | | | | | 1 | | 1 | | | | | | 1 | 1 | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Epithelium, Hyperplasia | | | | | | 2 | | | | | | 1 | | | | | | | | | | 2 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | X | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 2 |

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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

| FISCHER 344 RATS FEMALE
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|----------|
| | 0730 | 0730 | 0730 | 0730 | 0742 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0758 | 0775 | 0775 | 0777 | 0744 | 0766 | 0777 | 0777 | 0767 | 0777 | 0757 | 0777 | | |
| 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 | | |
| Pars Intermedia, Cyst
Rathke's Cleft, Dilatation | | | | | | | | | | | | | | | | | X | | | | | X | | 2
1 1.0 | |
| Thyroid Gland
Degeneration, Cystic
Ultimobranchial Cyst
C-cell, Hyperplasia
Follicular Cell, Hyperplasia, Focal | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
2 1.0
1 1.0
11 2.4
1 2.0 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
7 1.9 | |
| Ovary
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
6 | |
| Uterus
Hyperplasia, Cystic
Fat, Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
17 1.8
1 2.0 | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
6 3.5 | |

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

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

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

| FISCHER 344 RATS FEMALE
12.5 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|-----|
| | 0
7
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0 | 0
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7
3
0 | 0
4
2
2 | 0
7
3
1 | 0
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1 | 0
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1 | 0
7
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1 | 0
7
3
1 | 0
5
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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
3
1 | 0
7
3
1 | 0
5
4
0 | 0
7
3
1 | | | | |
| ANIMAL ID | 0
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2
7
6 | 0
0
2
7
7 | 0
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2
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8 | 0
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2
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9 | 0
0
2
8
0 | 0
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1 | 0
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8
2 | 0
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3 | 0
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2
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4 | 0
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8
5 | 0
0
2
8
6 | 0
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7 | 0
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8 | 0
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8
9 | 0
0
2
9
0 | 0
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9
1 | 0
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2 | 0
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9
3 | 0
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4 | 0
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5 | 0
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2
9
6 | 0
0
2
9
7 | 0
0
2
9
8 | 0
0
2
9
9 | 0
0
2
9
0 | | |
| 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 | M | 4 | |
| Hyperplasia, Lymphoid | | 2 | | 1 | | 1 | | 2 | | | | | | | | | | | | | | | | | | 4 | 1.5 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | | |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 | | |
| Hemorrhage | 2 | 2 | 1 | | | 1 | | | 1 | | | | | 2 | | | | | | | 1 | | | | 1 | 9 | 1.7 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 2 | 5 1.6 | | |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | 49 | | | |
| Ectopic Spleen, Multiple | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | | |
| Hematopoietic Cell Proliferation | 1 | | 1 | 1 | | 1 | 2 | 1 | | 1 | 4 | 1 | 3 | | 4 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 31 | 1.6 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Pigmentation | 2 | | 3 | 3 | | 3 | 3 | | 3 | 2 | 3 | | 3 | 2 | | 2 | 3 | 4 | 3 | 3 | 4 | 2 | 1 | 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
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TDMS No. 99037 - 05
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 alpha/beta Thujone mixture
 CAS Number: THUJONEMIXAB

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

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

Cyst X 2

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

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

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

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

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|-------|-------|
| | 05779 | 07292 | 07401 | 06316 | 07627 | 04485 | 02277 | 07631 | 06761 | 02675 | 07638 | 06775 | 02657 | 05513 | 07763 | 05200 | 01183 | 02799 | 06607 | 05490 | | | 07712 | 05713 |
| 25 MG/KG | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | |
| | 3301 | 3302 | 3303 | 3304 | 3305 | 3306 | 3307 | 3308 | 3309 | 3310 | 3311 | 3312 | 3313 | 3314 | 3315 | 3316 | 3317 | 3318 | 3319 | 3320 | 3321 | 3322 | 00000 | 00000 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Cecum | + | + | + | + | + | A | + | + | + | A | + | A | A | A | + | + | A | + | + | + | + | A | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | A | A | + | + | A | + | A | A | A | + | A | A | + | + | + | + | A | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | A | + | + | + | A | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum Necrosis | + | + | + | + | + | A | + | + | + | A | + | A | + | A | + | + | A | A | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | A | A | A | + | + | A | + | A | A | A | + | + | A | + | M | + | + | A | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | A | A | A | + | + | A | + | A | A | A | + | A | A | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Angiectasis | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | X | X | X | X | X | X | | X | X | X | X | | X | X | X | | | X | X | X | | | X | X |
| Clear Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | | X |
| 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
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TDMS No. 99037 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

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

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

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 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 FEMALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|
| | 05779 | 07209 | 07702 | 04311 | 06756 | 07427 | 08575 | 02711 | 07631 | 06871 | 02657 | 06133 | 05739 | 07200 | 06583 | 07100 | 01729 | 06670 | 05409 | 07716 | 07721 | 05751 | 04412 | 07229 | 07713 | | |
| Adrenal Cortex | + | + | + | + | + | A | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | | |
| Accessory Adrenal Cortical Nodule | | 1 | | | | | | | | | 2 | | | | | | | | 1 | 3 | 1 | | | | | | |
| Degeneration, Fatty | | 1 | 4 | | 1 | | | | | | | | | | | | 1 | | | 2 | 2 | | | 1 | | | |
| Hematopoietic Cell Proliferation | 1 | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Hemorrhage | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | 1 | | | | | | | | 2 | | | | | | | | | 3 | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | 4 | | | | | 2 | | | | | | | | | 3 | | | | | 4 | | | | |
| Adrenal Medulla | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | 4 | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Parathyroid Gland | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pigmentation | | | 2 | 1 | 1 | | | | | | 1 | 2 | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | 1 | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Pars Distalis, Atrophy | | | X | X | | | | | X | X | | | | | | X | X | | | | X | X | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | 2 | | | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Rathke's Cleft, Dilatation | 1 | | | 1 | | | | | 1 | | 1 | | | | | 1 | | | | 2 | | | | | | | |
| Thyroid Gland | + | + | + | + | + | A | + | + | + | + | + | A | + | A | + | + | A | + | + | + | + | + | + | + | + | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | 1 | | | | | | 1 | 2 | | | | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 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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 A .. Autolysis precludes evaluation
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TDMS No. 99037 - 05
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 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...) | | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|-----------------------|------------------|
| | 0
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6 | 0
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3 | 0
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0
9 | 0
6
0
7 | 0
5
0
0 | | | 0
4
1
6 | 0
7
2
9 | 0
7
1
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
3
0
1 | |

C-cell, Hyperplasia
 Follicular Cell, Hyperplasia, Focal

1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

HEMATOPOIETIC SYSTEM

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

* .. 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
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|
| | 0
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2 | 0
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1 | 0
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6 | 0
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7 | 0
4
8
5 | 0
2
5
7 | 0
7
3
1 | 0
6
6
1 | 0
7
3
1 | 0
6
8
1 | 0
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7
5 | 0
6
6
3 | 0
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9 | 0
7
2
0 | 0
5
8
0 | 0
1
7
3 | 0
2
0
9 | 0
6
0
7 | | | 0
5
4
0 | 0
7
1
6 | 0
7
2
9 |
| 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 | | | | | | | | | | | 1 | 2 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | | 1 | 1 | | | 1 | |
| Inflammation, Chronic | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 1 | | 1 | | 1 | | | | | 1 | | | | | 1 | | | | | 1 | | | | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|
| | 0390 | 0731 | 0731 | 0731 | 0652 | 0731 | 0731 | 0731 | 0331 | 0541 | 0731 | 0661 | 0661 | 0173 | 0731 | 0731 | 0731 | 0333 | 0472 | 0731 | | 0731 | 0664 | 0471 | 0648 | 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 | |
| ANIMAL ID | 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 | X | 40 | |
| Clear Cell Focus | | X | X | X | | X | X | | X | | | | | X | X | | | | | | | X | | | 11 | |
| Eosinophilic Focus | | | X | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | 1 | | | | | | | | | | | | | 4 1.0 | |
| Hepatodiaphragmatic Nodule | | X | | | | | | | | | | | | | | | | | | | | | X | | 6 | |
| Infiltration Cellular, Mixed Cell | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | | 1 | | 2 | 2 | | 32 1.1 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | 1 | | | | | | | | 5 1.4 | |
| Artery, Inflammation | | | | | | | | | | | | | | | | 3 | | | | | | | | | 1 3.0 | |
| Bile Duct, Hyperplasia | | | | | | 2 | | | 1 | | | | | | | | | | | | | 3 | | | 7 2.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 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 | | | |
|-------------------------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| ANIMAL ID | 0
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7 | 0
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3
4
8 | 0
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3
4
9 |
| Centrilobular, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | 3 3.3 | | | |
| Hepatocyte, Vacuolization | 2 | | | | | | | | | | | | | | | | | | | | 3 2.7 | | | |
| Kupffer Cell, Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | 9 | | | |
| Accessory Spleen | X | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Fat, Necrosis | 2 | | | | | | | | | | | | | | | | | | | | 8 2.1 | | | |
| Pancreas | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Atrophy | 2 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | 23 1.2 | | | |
| Cyst | X X X X | | | | | | | | | | | | | | | | | | | | 9 | | | |
| Acinus, Hyperplasia, Focal | 4 | | | | | | | | | | | | | | | | | | | | 2 2.5 | | | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Atrophy | 1 1 1 | | | | | | | | | | | | | | | | | | | | 5 1.0 | | | |
| Stomach, Forestomach | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Inflammation, Chronic Active | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | 2 2.0 | | | |
| Epithelium, Hyperplasia, Atypical | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Stomach, Glandular | + | | | | | | | | | | | | | | | | | | | | 48 | | | |
| Erosion | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Ulcer | 3 | | | | | | | | | | | | | | | | | | | | 3 2.3 | | | |
| 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

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 1) Minimal 3) Moderate
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TDMS No. 99037 - 05
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 alpha/beta Thujone mixture
 CAS Number: THUJONEMIXAB

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

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 alpha/beta Thujone mixture
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| FISCHER 344 RATS FEMALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| ANIMAL ID | 0
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9 |

| | | | |
|-------------------------------------|---|---|-----|
| C-cell, Hyperplasia | 2 | 2 | 1.5 |
| Follicular Cell, Hyperplasia, Focal | | 1 | 1.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | 3 | 3 | | | | | | | 3 | | | | 6 | 3.5 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | 1 | | | | | | | | | | | 2 | 1.0 | |
| Lymph Node | | | | | | + | | | | | | | + | | | M | | | + | | + | | + | 6 | | |

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

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

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

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

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

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

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

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

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

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

| FISCHER 344 RATS FEMALE
25 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|-----|-----|
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| ANIMAL ID | 0
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9 | | | |
| Duct, Ectasia | | 2 | 2 | 2 | 1 | 2 | 2 | 1 | | 2 | 3 | 2 | 2 | | 2 | 2 | 1 | | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 39 | 1.9 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Compression | | | | | | | | | | | | | | | | X | | | | | | | | X | 6 | | |
| Gliosis | | | | | | | | 3 | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Necrosis | | | | | | | 3 | | | | | | | | | | | | | | | | | | 3 | 2.7 | |
| Pigmentation | | | | | | | | | | | 1 | | | | | | | | | | | | | | 5 | 1.2 | |
| 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
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1-4 .. Lesion qualified as:
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 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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|---|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|--------|--------|
| | 0390 | 0371 | 0377 | 0377 | 0365 | 0377 | 0377 | 0377 | 0335 | 0354 | 0371 | 0366 | 0366 | 0317 | 0377 | 0377 | 0322 | 0322 | 0338 | 0344 | | 0347 | 0377 | 0377 | 0366 | 0344 | 0377 | 0364 | 0377 |
| ANIMAL ID | 00026 | 00007 | 00008 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | |
| Inflammation, Chronic | | 2 | | 1 | | | | | | | 2 | | | | 1 | 1 | | | | | 2 | 1 | 2 | | | | | | 9 1.4 |
| Respiratory Epithelium, Hyperplasia | | 2 | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 2 1.5 |
| 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
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

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

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

ALIMENTARY SYSTEM

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

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

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

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

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

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

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

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

| FISCHER 344 RATS FEMALE
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 | 0 | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | | |
| Hemorrhage | 2 | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Parathyroid Gland | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Pituitary Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Pars Distalis, Angiectasis | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Atrophy | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pars Distalis, Cyst | | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rathke's Cleft, Dilatation | 2 | | | | | 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Ectopic Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99037 - 05
 Test Type: CHRONIC
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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 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 | 1 | 0 | 0 | 0 | 2 | | |
| | 4 | 6 | 5 | 6 | 5 | 1 | 2 | 7 | 8 | 5 | 8 | 7 | 2 | 9 | 7 | 3 | 3 | 2 | 5 | 4 | 8 | 0 | 5 | 7 | 3 | 9 | | | | | |
| | 6 | 1 | 2 | 5 | 4 | 1 | 7 | 6 | 9 | 6 | 2 | 9 | 4 | 0 | 3 | 9 | 9 | 7 | 0 | 8 | 9 | 1 | 2 | 9 | 3 | 9 | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | | | | | |
| Clitoral Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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 | 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 | 9 | 3 | | | | |
| | 6 | 1 | 2 | 5 | 4 | 1 | 7 | 6 | 9 | 6 | 2 | 9 | 4 | 0 | 3 | 9 | 9 | 7 | 0 | 8 | 9 | 1 | 2 | 9 | 9 | 3 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 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
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 alpha/beta Thujone mixture
 CAS Number: THUJONEMIXAB

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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | 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 | | |
| 50 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | | |
| | 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 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 | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Infiltration Cellular, Histiocyte | 1 | | | | | | | | 1 | | | | | 1 | | | | | | | | 1 | 1 | | | 1 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | 1 | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 3 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nasolacrimal Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nephropathy | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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

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

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

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

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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 01 | 01 | 01 | 01 | 02 | 01 | 01 | 01 | 00 | 01 | 00 | 00 | 01 | 00 | 01 | 00 | 02 | 01 | 01 | 02 | | 01 | 01 | 00 | 01 |
| 5 | 7 | 0 | 4 | 3 | 1 | 0 | 5 | 8 | 8 | 4 | 7 | 3 | 8 | 4 | 8 | 0 | 9 | 6 | 3 | 3 | 7 | 9 | 5 | 9 | |
| 6 | 7 | 2 | 3 | 9 | 0 | 6 | 3 | 7 | 3 | 4 | 1 | 4 | 7 | 8 | 9 | 4 | 0 | 3 | 5 | 0 | 7 | 3 | 8 | 9 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 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 | + | + | 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 | + | + | 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 | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | 3 | | | | | | | 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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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 |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 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
2
0
4 | 0
1
6
3 | 0
1
3
5 | 0
1
7
0 | 0
0
9
3 | 0
1
5
8 | 0
0
5
9 | | |
| 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 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | 1 | | | | | | | | | | | | | | | | | | | 5 | |
| Cyst | | | | | | | | | | | | | X | | | | | | | | | | | 1.2 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | | | | 1 | | |
| Mineralization | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Ulcer | | | | | | | | | | | | 1 | | | | | | | | | | | 1 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | | | 1 | | | | 1 | | | | | | | | | | | | | | | | 1 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Artery, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Degeneration, Fatty | | | | | | | | | | | | | | | | | | | | | | | 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
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TDMS No. 99037 - 05
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 alpha/beta Thujone mixture
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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 | | | | | | | | | | | | | | | | | | | | | | 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 | 26 1.3 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ectopic Thymus | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|-----------------------------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|-------|----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | |
| 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 1 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 50 | |
| 5 | 7 | 0 | 4 | 3 | 1 | 0 | 5 | 8 | 8 | 4 | 7 | 3 | 8 | 4 | 8 | 0 | 9 | 6 | 3 | 3 | 7 | 9 | 5 | 9 | | |
| 6 | 7 | 2 | 3 | 9 | 0 | 6 | 3 | 7 | 3 | 4 | 1 | 4 | 7 | 8 | 9 | 4 | 0 | 3 | 5 | 0 | 7 | 3 | 8 | 9 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 50 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | 2 | | 6 1.5 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mineralization | | | | | 1 | 1 | | 1 | 1 | | 1 | | | | | | | | | | | | | | 8 1.0 | |
| Nephropathy | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | | 4 1.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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