

TDMS No. 99031 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ginkgo biloba extract
CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
Time Report Requested: 12:22:19
First Dose M/F: 03/23/05 / 03/24/05
Lab: BAT

F1_R2

C Number: C99031
Lock Date: 05/21/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.3.0
PWG Approval Date: NONE

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FISCHER 344 RATS MALE	DAY ON TEST																				males (cont...)					
	0729	0699	0728	0728	0728	0727	0727	0727	0727	0727	0727	0727	0727	0727	0727	0727	0727	0727	0727	0727		0727				
	ANIMAL ID																									
0 mg/kg	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	males (cont...)				
	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	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum Thrombosis Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis						1																			1
Basophilic Focus	X	X	X	X	X	X	X	X	X						X	X	X	X	X		X	X	X	X	X
Clear Cell Focus	X		X	X	X	X		X	X	X	X			X	X		X	X		X			X		X
Congestion																									
Degeneration, Cystic												1	1									1			
Eosinophilic Focus				X		X		X		X					X					X			X		X
Fatty Change, Focal				X		X																			
Hepatodiaphragmatic Nodule																									X
Inflammation, Chronic	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
Mixed Cell Focus	X		X	X	X	X			X						X								X	X	

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0 mg/kg	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	2	2	2	2		
Necrosis																											
Bile Duct, Hyperplasia	2	1	1	1	1	1	1	1					1		1	1		1	1	1		1	1	1	1		
Hepatocyte, Fatty Change	1	3	2		1	1		2				1	1	3		1	1			2		1	1				
Hepatocyte, Hypertrophy				1																							
Mesentery																											
Fat, Necrosis																											
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Mineralization																											
Acinus, Atrophy						1	1	1	1		2				2		1		1	2			2	1			
Acinus, Hyperplasia					1				2			2							1					1	1		
Duct, Cyst													2														
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Chronic		3											3														
Ulcer																											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Mineralization																											
Ulcer																											
Epithelium, Hyperplasia						1																					
Glands, Ectasia		1			1		1			1		1		1				1		1			1	1	1		

males
(cont...)

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Aorta, Mineralization																									

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	0729	0699	0728	0728	0778	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	
0 mg/kg	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
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	0000	
	12	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

Pulmonary Vein, Mineralization

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	2	2	2	2	3	2	2	1	2	2	2	1	2	1	2	2	2	2	2	2	2	2	2
Atrium, Thrombosis																					3			
Myocardium, Mineralization																								

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration, Cystic																					2	2		
Hyperplasia, Focal									3	1		1				2		2	2		1		1	
Hypertrophy, Focal	2							2												3				
Hypertrophy, Diffuse												1												
Vacuolization Cytoplasmic, Focal	2										1	1	1	1	1			1		2			1	
Vacuolization Cytoplasmic, Diffuse		1	1				1											1			1		1	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				2		1		2			2	2												
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia		1		1																				
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+
Hyperplasia																								
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst											1													
Pars Distalis, Hyperplasia			2		1			2	1				1		2	1		2	2			1		2
Pars Intermedia, Hyperplasia										2														

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DAY ON TEST	FISCHER 344 RATS MALE																									males (cont...)	
	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
Thyroid Gland																											
C-cell, Hyperplasia			3				1	1	1		2		1					1	1	1		1	1			2	
Follicular Cell, Hypertrophy									1								1	1				1					
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Epididymis																											
Preputial Gland																											
Cyst																											
Hyperplasia																											
Inflammation, Chronic			1	2	2	2	1	2	2	2	2	2	2	2	2	2	1	2	2	1	2	1	2	1	2	2	1
Prostate																											
Hyperplasia																2			1	1					1		
Inflammation			2	1	1		2	1	2	2		2			1			1	2		2	2	2	2		2	2
Necrosis																											1
Seminal Vesicle																											
Inflammation																											
Testes																											
Germinal Epithelium, Atrophy																											
HEMATOPOIETIC SYSTEM																											
Bone Marrow																											

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	0729	0769	0778	0778	0778	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777			
0 mg/kg	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	0000	0000		
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890		

Hyperplasia	3	1	1		2	1		1
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Lymph Node
 Mediastinal, Inflammation, Suppurative

Lymph Node, Mandibular

M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Lymph Node, Mesenteric
 Infiltration Cellular, Histiocyte

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Spleen
 Fibrosis
 Hematopoietic Cell Proliferation
 Lymphoid Follicle, Atrophy

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+	+	+
																		1								
		1													1											

Thymus
 Atrophy
 Epithelial Cell, Hyperplasia

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

INTEGUMENTARY SYSTEM

Mammary Gland
 Duct, Cyst

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

Skin
 Lymphatic, Subcutaneous Tissue, Cyst
 Sebaceous Gland, Cyst

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
													2													
																										2

MUSCULOSKELETAL SYSTEM

Bone

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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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	
		7	6	7	7	7	7	7	7	7	7	7	7	5	7	7	5	7	7	7	7	7	7	7	
		2	9	2	2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2	2	
		9	9	8	8	8	7	7	9	7	7	8	8	6	7	8	5	8	7	7	8	8	8	8	
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	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

males
(cont...)

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic			1	1		1	1	1			1		1		2						1		1		
Metaplasia, Osseous																									
Alveolar Epithelium, Hyperplasia						2						2							2					2	
Bronchiole, Hyperplasia																									
Bronchus, Hyperplasia																									
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body		X								X					X		X	X				X	X		
Inflammation, Chronic Active		2	1			1	2	1	2	2		1			1	1	1	1		1	1	2	1	1	1
Respiratory Metaplasia										2															
Synechia, Focal																									
Glands, Hyperplasia																									
Goblet Cell, Respiratory Epithelium, Hyperplasia		2	1				2		2	1					1		1	1				1		1	
Nasolacrimal Duct, Inflammation, Chronic Active																						2			
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	2	3	3	1	1	3	2	3	2	1	2	1	1	1		2	2	1	2		2	3	2	2
Olfactory Epithelium, Atrophy																									
Olfactory Epithelium, Respiratory Metaplasia		1								1		1										2		1	
Respiratory Epithelium, Hyperplasia		1						2		1							1	1					2		
Respiratory Epithelium, Inflammation, Chronic							1																		
Transitional Epithelium, Hyperplasia																									

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
7	6	7	7	7	7	7	7	7	7	7	7	7	5	7	7	5	7	7	7	7	7	7	7	7	7	0	
2	9	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2	2	2	2	0	
9	9	8	8	8	7	7	9	7	7	8	8	6	7	8	5	8	7	7	8	8	8	8	7	9	8	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	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	2	2	2	2	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		

Trachea Inflammation, Chronic
 +
 1

SPECIAL SENSES SYSTEM

Eye Cataract
 +
 3

Harderian Gland
 +

Zymbal's Gland
 +

URINARY SYSTEM

Kidney
 Hydronephrosis
 Nephropathy
 Papilla, Necrosis
 Renal Tubule, Cyst
 Renal Tubule, Hyperplasia
 +
 1 2 2 1 2 2 2 2 2 1 1 2 3 2 2 2 1 2 3 1 2 2 2 2 2
 2
 1

Urinary Bladder Inflammation, Chronic
 Necrosis
 +
 1

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| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--|
| | 0728 | 0533 | 0728 | 0722 | 0722 | 0700 | 0688 | 0722 | 0722 | 0722 | 0722 | 0642 | 0722 | 0722 | 0722 | 0722 | 0664 | 0669 | 0722 | 0722 | 0722 | 0667 | | | | |
| 0 mg/kg | 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 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parasite Metazoan | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | 3 1.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Basophilic Focus | X | | X | | X | | | | | X | | | X | X | | | X | X | | | X | | | X | | | 30 |
| Clear Cell Focus | X | | X | X | X | | | | X | X | | X | X | | | X | X | | | X | | | X | X | | | 31 |
| Congestion | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Degeneration, Cystic | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 4 1.0 |
| Eosinophilic Focus | | | | | X | | | | | | | | | | | X | | | | X | | | | | | | 14 |
| Fatty Change, Focal | | | | | X | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | X | | | | | | | | | | | 2 |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 44 1.0 |
| Mixed Cell Focus | X | | | X | | | X | | | X | | | X | | | X | X | X | | | X | | X | | | | 19 |

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0728 | 0533 | 0728 | 0722 | 0722 | 0700 | 0608 | 0728 | 0722 | 0722 | 0722 | 0604 | 0722 | 0722 | 0701 | 0722 | 0606 | 0606 | 0722 | 0722 | | 0722 | 0606 |
| 0 mg/kg | 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 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | 1 | 1 | | | | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 2 | | 1 |
| Hepatocyte, Fatty Change | 1 | | | | | | | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 2 | | 2 | 3 | 1 | 1 |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | + | | | | | | | | | | | | | | | | | | | + |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mineralization | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Acinus, Atrophy | | | | | 1 | | | | 1 | 1 | | | 1 | 1 | | | 2 | 1 | 1 | 2 | | 1 | 2 |
| Acinus, Hyperplasia | 1 | | | | | | | | 2 | | | 1 | | | 3 | | | | | 1 | | | |
| Duct, Cyst | | | | | | | | | | 1 | | | | 1 | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | 3 | | | | | | | | | | | | | | | 3 | | 4 |
| Ulcer | | | | | | 3 | | | | | | | | | | | | | | | 3 | | 2 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mineralization | | | | | | | | | | | | | | | | | | 4 | | | | | 1 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | 2 | | 2 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 3 | 1 |
| Glands, Ectasia | 1 | | | 1 | | | | 1 | 1 | 1 | | | | 1 | | | | | | | | | 17 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Aorta, Mineralization | | | | | | | | | | | | | | | | | | 3 | | | | | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
0 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|--|--|
| | 0728 | 0533 | 0728 | 0728 | 0728 | 0728 | 0628 | 0728 | 0728 | 0728 | 0728 | 0628 | 0728 | 0728 | 0728 | 0728 | 0728 | 0628 | 0628 | 0728 | | 0728 | 0728 | 0628 | 0728 | | |
| ANIMAL ID | 00026 | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 | 00026 | 00027 | 00028 | 00029 | 00030 | | |
| Pulmonary Vein, Mineralization | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 50 | | |
| Atrium, Thrombosis | | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | 3 | | |
| Myocardium, Mineralization | | | | | | | | | | | | | | | | | | | 3 | | | | | | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Hyperplasia, Focal | | | | | | | | | | | | | 1 | | 1 | | | | | 1 | 2 | | | | 12 | | |
| Hypertrophy, Focal | | | 2 | | | | 2 | | | | | | 1 | | | | | | | | | | | 1 | 7 | | |
| Hypertrophy, Diffuse | | | | | | | | | | | | | | | | | 2 | | | | | | 2 | 3 | | | |
| Vacuolization Cytoplasmic, Focal | | | 1 | | | | 1 | | | | | 1 | 1 | | | | 1 | | 1 | 1 | | | 1 | 17 | | | |
| Vacuolization Cytoplasmic, Diffuse | | | 1 | | 2 | | 1 | 1 | | | 1 | | | 1 | 1 | | 2 | 1 | | 2 | 1 | 2 | | 18 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1.2 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | | | | 2 | 2 | | 2 | | 1 | | | 1 | | 2 | | | 2 | | | | 2 | 2 | | 15 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.8 | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | | | | | | | | | | | | | 1 | | | | | | | | | | | 3 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.0 | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 47 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cyst | 2 | | | | | | | | | | 1 | | | | 1 | | | | | | 1 | | | 5 | | | |
| Pars Distalis, Hyperplasia | | | 1 | 1 | | 2 | | | | 1 | | | | 2 | | 1 | | 2 | | | | | 1 | 19 | | | |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|
| | 07 | 05 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | | 07 | 06 | 07 |
| 0 mg/kg | 28 | 33 | 28 | 27 | 27 | 06 | 84 | 28 | 29 | 29 | 80 | 24 | 28 | 71 | 08 | 28 | 40 | 92 | 27 | 28 | 27 | 26 | 27 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 22 | 22 | 22 | 23 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 45 | |
| | 67 | 78 | 89 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | 1 | | 1 | | 1 | | | 1 | 3 | | 2 | 1 | 1 | 1 | | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 35 | 1.4 |
| Follicular Cell, Hypertrophy | | | | 1 | | | | 1 | | 1 | | 1 | 1 | | | 1 | | 1 | | | | | 1 | 13 | 1.0 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | 2 | | | | | | | | | | 2 | | | | | | | | | | | | | 2 | 2.0 | |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | 2 | | | | | | | 2 | 2.0 | |
| Inflammation, Chronic | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 49 | 1.7 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | 1 | | | | | | | | | | | | | | 1 | | | | | | | | | 6 | 1.2 | |
| Inflammation | | 2 | | 1 | | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | | 2 | | 2 | | 3 | 1 | 2 | 1 | 36 | 1.8 | |
| Necrosis | | | | | | | | | | | | | | | | | 4 | | | | | | | 1 | 4.0 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | 2 | 3 | | | | | | 2 | 2.5 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | 4 | | 1 | 4.0 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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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 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
0 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|--------|-------|
| | 0728 | 0533 | 0728 | 0722 | 0722 | 0700 | 0688 | 0722 | 0722 | 0722 | 0722 | 0642 | 0722 | 0722 | 0722 | 0722 | 0666 | 0666 | 0722 | 0722 | | | 0722 | 0666 | 0722 | 0666 | 0722 | |
| ANIMAL ID | 00026 | 00007 | 00008 | 00007 | 00007 | 00007 | 00006 | 00007 | 00007 | 00007 | 00007 | 00006 | 00007 | 00007 | 00007 | 00007 | 00006 | 00006 | 00007 | 00007 | 00007 | 00006 | 00007 | 00006 | 00007 | | | |
| Hyperplasia | | | 2 | | | | | 3 | | | | 1 | | 4 | | | | 1 | 1 | | 4 | | 2 | 14 | 1.9 | | | |
| Lymph Node
Mediastinal, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 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 | M | M | 0 | | |
| Lymph Node, Mesenteric
Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 | |
| Spleen
Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 1.0 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 1.7 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 | 2 2.5 |
| Thymus
Atrophy | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | 47 | 47 3.6 | |
| Epithelial Cell, Hyperplasia | 3 | | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | | 3 | 4 | 4 | 4 | 3 | | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 1 | 2.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Duct, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 12 1.6 | |
| Skin
Lymphatic, Subcutaneous Tissue, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 | |
| Sebaceous Gland, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

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

NERVOUS SYSTEM

Brain + 50

RESPIRATORY SYSTEM

Lung + 50
 Inflammation, Chronic 1 1 19 1.1
 Metaplasia, Osseous 1 1.0
 Alveolar Epithelium, Hyperplasia 1 2 8 1.9
 Bronchiole, Hyperplasia 4 1 4.0
 Bronchus, Hyperplasia 2 1 2.0

Nose + 50
 Foreign Body X X X 11
 Inflammation, Chronic Active 2 1 1 1 2 2 1 33 1.2
 Respiratory Metaplasia 1 2.0
 Synechia, Focal 2 1 2.0
 Glands, Hyperplasia 2 1 2.0
 Goblet Cell, Respiratory Epithelium, Hyperplasia 2 2 1 2 1 1 2 1 20 1.5
 Nasolacrimal Duct, Inflammation, Chronic Active 1 2.0
 Olfactory Epithelium, Accumulation, Hyaline Droplet 2 2 1 1 1 2 2 1 1 1 3 2 2 2 2 2 3 3 2 3 3 45 1.9
 Olfactory Epithelium, Atrophy 1 1 1.0
 Olfactory Epithelium, Respiratory Metaplasia 2 1 2 1 9 1.3
 Respiratory Epithelium, Hyperplasia 2 3 1 1 2 2 2 14 1.6
 Respiratory Epithelium, Inflammation, Chronic 1 1.0
 Transitional Epithelium, Hyperplasia 1 2 2 1.5

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| 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 mg/kg | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | |
| | 2 | 3 | 2 | 2 | 2 | 0 | 8 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 0 | 2 | 2 | 4 | 9 | 2 | 2 | 2 | 2 | |
| | 8 | 3 | 8 | 7 | 7 | 6 | 4 | 8 | 9 | 9 | 8 | 0 | 8 | 7 | 1 | 8 | 8 | 0 | 2 | 7 | 7 | 8 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 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 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | 4 | | | | | | 1 4.0 |
| Nephropathy | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 3 | 1 | 49 1.7 |
| Papilla, Necrosis | | | 1 | | | | | | | | | | | | 1 | | | 4 | | | | | | 3 2.0 |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | 3 | | | | | 2 2.0 |
| 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:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
2
9 | 0
7
2
8 | 0
7
2
8 | 0
6
4
3 | 0
7
2
9 | 0
6
6
7 | 0
7
2
8 | 0
7
2
7 | 0
7
2
8 | 0
7
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7 | 0
7
2
8 | 0
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7 | 0
7
2
8 | 0
7
2
7 | 0
6
5
4 | 0
7
2
7 | 0
4
2
9 | 0
7
2
8 | 0
5
1
9 | 0
7
2
8 | | | 0
7
2
8 | 0
7
2
9 | 0
7
2
7 |
| 100 mg/kg | 0
0
0
5
1 | 0
0
0
5
2 | 0
0
0
5
3 | 0
0
0
5
4 | 0
0
0
5
5 | 0
0
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5
6 | 0
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7 | 0
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8 | 0
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9 | 0
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3 | 0
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4 | 0
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7 | 0
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9 | 0
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7
1 | 0
0
0
7
2 | 0
0
0
7
3 | 0
0
0
7
4 | 0
0
0
7
5 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 1 | | | | | | 1 | 2 | | | | | | | | | 2 | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 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 | | X | X | | X | | X | | | | X |
| Degeneration, Cystic | 1 | | 1 | | | | | | 1 | | | | 1 | | 1 | | | | | | 1 | | | | |
| Eosinophilic Focus | X | X | | | | | X | X | X | | X | | X | X | | X | X | | | | X | | | | X |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | 1 | | | 1 | | 1 | 1 | 1 | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | X | X | | | X | | X | X | X | | | | X | X | | X | X | | X | | | X | X | X | X |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 2 | 2 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | | 1 | 2 | 1 | 1 | | | 2 | 1 | 2 |
| Hepatocyte, Fatty Change | 1 | | | | | | 2 | 1 | | | | | | 2 | 1 | | | | | | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
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9 | 0
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2
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8 | 0
6
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3 | 0
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9 | 0
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8 | 0
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7 | 0
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8 | 0
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7 | 0
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8 | 0
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7 | 0
7
2
8 | 0
7
2
7 | 0
7
2
8 | 0
6
5
4 | 0
7
2
7 | 0
4
2
9 | 0
7
2
8 | 0
5
1
9 | 0
7
2
8 | 0
7
2
8 | 0
7
2
9 | 0
7
2
7 | | |
| 100 mg/kg | 0
0
0
5
1 | 0
0
0
5
2 | 0
0
0
5
3 | 0
0
0
5
4 | 0
0
0
5
5 | 0
0
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6 | 0
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7 | 0
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8 | 0
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5
9 | 0
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6
1 | 0
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0
6
2 | 0
0
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6
3 | 0
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6
4 | 0
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6
5 | 0
0
0
6
6 | 0
0
0
6
7 | 0
0
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6
8 | 0
0
0
6
9 | 0
0
0
7
0 | 0
0
0
7
1 | 0
0
0
7
2 | 0
0
0
7
3 | 0
0
0
7
4 | 0
0
0
7
5 | |

Hepatocyte, Hypertrophy
 Oval Cell, Hyperplasia

2 2 1 1 1

Mesentery
 Fat, Necrosis

+ + +

Pancreas
 Inflammation, Chronic
 Acinus, Atrophy
 Acinus, Hyperplasia
 Duct, Cyst

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

Salivary Glands

+ +

Stomach, Forestomach
 Inflammation, Chronic

+
 3

Stomach, Glandular
 Inflammation, Suppurative
 Inflammation, Chronic
 Mineralization
 Glands, Ectasia
 Glands, Hyperplasia

+
 1 2

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart
 Cardiomyopathy

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 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 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 5 | 7 | 7 | 7 | | |
| 100 mg/kg | 2 | 2 | 2 | 4 | 2 | 6 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 0 | 5 | 2 | 2 | 4 | 2 | 1 | 2 | 2 | 2 | 2 | | |
| | 9 | 8 | 8 | 3 | 9 | 7 | 8 | 7 | 8 | 7 | 6 | 7 | 8 | 4 | 7 | 7 | 9 | 8 | 9 | 8 | 8 | 8 | 9 | 7 | | |
| | 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 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | males
(cont...) |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | 1 | | | | | 2 | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | 1 | | | 2 | | | | | | | | | | | | 1 | | | | 2 | | | 1 | |
| Hypertrophy, Focal | | | | 2 | | | | | | | | | 2 | 2 | | 2 | | | | | | | 2 | |
| Hypertrophy, Diffuse | | | | 2 | | | | | | 2 | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Vacuolization Cytoplasmic, Focal | | | | 1 | 1 | | | | | 1 | | | 1 | 1 | | 1 | | 1 | | | 1 | | 1 | |
| Vacuolization Cytoplasmic, Diffuse | | 1 | | | 1 | 2 | 1 | | 1 | | 1 | 1 | | | 1 | 1 | | 1 | | 1 | 2 | 1 | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | 3 | | | | | | | | | | | 1 | | 1 | 1 | | | 1 | 3 | | 2 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | 1 | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | 1 | | | | | | | | | | | 2 | | | | |
| Pars Distalis, Hyperplasia | 1 | | | | 2 | | | | | | | | | | | | | 3 | | | | 1 | 2 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | | | 2 | | | | | 1 | 1 | | 1 | 1 | |
| Follicle, Hyperplasia | | | | 3 | | | | | | | | | | 1 | 1 | | | | | | | | | |
| Follicular Cell, Hypertrophy | 1 | 1 | 1 | | 1 | | 2 | 2 | 2 | 2 | 1 | 1 | | 1 | | | 1 | 1 | | 1 | 1 | | 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:
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2) Mild 4) Marked

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0728 | 0778 | 0643 | 0729 | 0667 | 0767 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0678 | 0677 | 0777 | 0479 | 0779 | 0579 | 0778 | 0778 | 0778 | 0778 | 0778 | | |
| 100 mg/kg | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis
Granuloma Sperm
Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Preputial Gland
Hyperplasia
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | | 2 | 1 | 2 | |
| Prostate
Hyperplasia
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | 2 | 1 | 3 | 2 | | | 2 | 2 | 2 | | | 2 | | 1 | | 2 | 1 | 2 | | 2 | 4 | 2 |
| Seminal Vesicle
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | 1 | | | | | | | | | | | | | | | | | | 3 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 2 | 2 | | | 1 | 1 | 3 | | | 3 | | | 2 | | 2 | | | | | 4 | | | |
| Lymph Node
Mediastinal, 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. 99031 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ginkgo biloba extract

CAS Number: 90045-36-6

Date Report Requested: 01/17/2011

Time Report Requested: 12:22:19

First Dose M/F: 03/23/05 / 03/24/05

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------|-----------------------|-----------------------|
| FISCHER 344 RATS MALE

100 mg/kg | DAY ON TEST | 0
7
2
9 | 0
7
2
8 | 0
7
2
8 | 0
6
4
3 | 0
7
2
9 | 0
6
6
7 | 0
7
2
8 | 0
7
2
7 | 0
7
2
8 | 0
7
2
7 | 0
7
2
8 | 0
7
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7 | 0
7
2
8 | 0
7
2
7 | 0
6
5
4 | 0
7
2
7 | 0
4
2
9 | 0
7
2
8 | 0
5
1
9 | 0
7
2
8 | 0
7
2
8 | 0
7
2
9 | 0
7
2
7 | males
(cont...) | | |
| | ANIMAL ID | 0
0
0
5
1 | 0
0
0
5
2 | 0
0
0
5
3 | 0
0
0
5
4 | 0
0
0
5
5 | 0
0
0
5
6 | 0
0
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7 | 0
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8 | 0
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5
9 | 0
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6
0 | 0
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6
1 | 0
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6
2 | 0
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3 | 0
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4 | 0
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5 | 0
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6 | 0
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6
7 | 0
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6
8 | 0
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7
9 | 0
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7
0 | 0
0
0
7
1 | 0
0
0
7
2 | 0
0
0
7
3 | | 0
0
0
7
4 | 0
0
0
7
5 |

Mediastinal, Infiltration Cellular, Histiocyte

Lymph Node, Mandibular

Lymph Node, Mesenteric
Hyperplasia, Lymphoid
Infiltration Cellular, Histiocyte
Necrosis

Spleen
Fibrosis
Hematopoietic Cell Proliferation
Hemorrhage
Necrosis
Lymphoid Follicle, Atrophy

Thymus
Atrophy
Epithelial Cell, Hyperplasia

INTEGUMENTARY SYSTEM

Mammary Gland
Inflammation, Chronic
Duct, Cyst

Skin
Cyst Epithelial Inclusion
Lymphatic, Subcutaneous Tissue, Cyst

MUSCULOSKELETAL 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE

100 mg/kg | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | males
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 5 | 7 | 7 | 7 | 7 | | |
| | 2 | 2 | 2 | 4 | 2 | 6 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 0 | 5 | 2 | 2 | 4 | 2 | 1 | 2 | 2 | 2 | 2 | 0 | |
| | 9 | 8 | 8 | 3 | 9 | 7 | 8 | 7 | 8 | 7 | 6 | 7 | 8 | 4 | 7 | 7 | 9 | 8 | 9 | 8 | 8 | 8 | 9 | 7 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 |

Bone Hyperostosis +

NERVOUS SYSTEM

Brain Necrosis +

RESPIRATORY SYSTEM

Lung Inflammation, Chronic +
 Metaplasia, Osseous 1 2 1 3 2
 Alveolar Epithelium, Hyperplasia 1 1 1 1

Nose Foreign Body +
 Inflammation, Chronic Active 2 1 1 1 1 2 2 1 1 2 1 2 1 1 2 1 1 1 1 1 1 1 1 1
 Goblet Cell, Respiratory Epithelium, Hyperplasia 1 1 1 1 1 2 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1
 Nerve, Olfactory Epithelium, Atrophy 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 Olfactory Epithelium, Accumulation, Hyaline Droplet 1 2 2 3 2 2 2 2 2 2 1 1 2 1 2 2 1 2 2 1 1 1 1 1 1
 Olfactory Epithelium, Atrophy 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 Olfactory Epithelium, Pigmentation 2 1 1 1 1 2 2 2 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1
 Olfactory Epithelium, Respiratory Metaplasia 2 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 Respiratory Epithelium, Hyperplasia 1 1 2 1 2 2 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 Transitional Epithelium, Hyperplasia 2 1

Trachea +

* .. 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

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

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

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 3 | 2 | 4 | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | |
| 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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| 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 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| FISCHER 344 RATS MALE | 0 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 6 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 2 | 2 | 1 | 2 | 2 |
| 100 mg/kg | 5 | 8 | 7 | 8 | 8 | 8 | 4 | 8 | 8 | 7 | 7 | 5 | 8 | 7 | 8 | 7 | 7 | 9 | 2 | 9 | 8 | 0 | 7 | 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 |
| 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 |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 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 | 7 | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 49 | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 8 | 1.4 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 49 | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | | 1 | | | | | | | | | | | | | | 1 | 1 | 1 | | 5 | 1.0 | |
| Basophilic Focus | | | X | X | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | 37 | | |
| Clear Cell Focus | | X | X | X | X | X | | X | X | X | X | | X | X | X | X | X | | X | X | X | X | X | 30 | | |
| Degeneration, Cystic | | | | 1 | | 3 | | | | | 1 | | 1 | | | | 1 | | | 1 | | 1 | | 14 | 1.1 | |
| Eosinophilic Focus | | | | | | | | X | | | X | | | | X | X | X | X | | X | X | | X | 21 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 1.0 | |
| Hepatodiaphragmatic Nodule | | | | | X | | | | | | | | | | | | | X | | | | | X | 3 | | |
| Inflammation, Chronic | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 41 | 1.0 | |
| Mixed Cell Focus | | | X | X | X | X | | X | X | X | X | | X | X | X | X | | | X | X | | X | X | 32 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | 2 | | | | 4 | 1.5 | |
| Bile Duct, Hyperplasia | | 1 | 1 | 1 | | 2 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 43 | 1.5 | |
| Hepatocyte, Fatty Change | | 1 | | 1 | | 1 | | 1 | 1 | 1 | | | 1 | | 1 | | | 2 | 2 | | 1 | | 1 | 18 | 1.3 | |

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

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
100 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
0
1
5 | 0
6
6
8 | 0
7
2
7 | 0
7
2
8 | 0
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8 | 0
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4 | 0
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8 | 0
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6
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9 | 0
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8 | 0
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7 | 0
7
2
8 | | |
| ANIMAL ID | 0
0
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6 | 0
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4 | 0
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7 | 0
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8 | 0
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9 | 0
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1 | 0
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9
2 | 0
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3 | 0
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9
4 | 0
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9
5 | 0
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9
6 | 0
0
0
9
7 | 0
0
0
9
8 | 0
0
0
9
9 | 0
0
0
9
0 |
| Hepatocyte, Hypertrophy | 2 | | | 1 | 2 | | 1 | | 2 | 1 | | | | 1 | 1 | 2 | | | | | 1 | 2 | 1 | 17 | 1.4 |
| Oval Cell, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Acinus, Atrophy | | 1 | 2 | 1 | 1 | 1 | | | 1 | | | 1 | 3 | 2 | | 4 | | 1 | | 1 | | 1 | | 23 | 1.4 |
| Acinus, Hyperplasia | | | | | 1 | | | | | | | | | | | | 1 | 1 | | | 1 | 1 | | 7 | 1.0 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 | 1.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Inflammation, Chronic | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | 3 | | | | | 1 | 3.0 |
| Glands, Ectasia | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 30 | 1.0 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 48 | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| 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 | * TOTALS | |
| | | 0 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 1 | 6 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 1 | 2 | 2 | | |
| | | 5 | 8 | 7 | 8 | 8 | 8 | 4 | 8 | 8 | 8 | 7 | 7 | 5 | 8 | 7 | 8 | 7 | 9 | 2 | 9 | 8 | 0 | 7 | | 8 |
| | 100 mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 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 | 7 | 8 | 9 | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Degeneration, Cystic | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | 4 | 1.3 | |
| Hyperplasia, Focal | | | 1 | | | | | | | | | 1 | | | 2 | | | | 1 | | | | | | 9 | 1.3 | |
| Hypertrophy, Focal | | | | | | | | | | 1 | 2 | 1 | | | | | | | | | | | | 2 | 2 | 10 | 1.8 |
| Hypertrophy, Diffuse | | | | | | | | | | | | | 2 | | | | | | | | | | | | | 3 | 2.0 |
| Infiltration Cellular, Mononuclear Cell Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Vacuolization Cytoplasmic, Focal | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 2 | | | | | 1 | 17 | 1.1 |
| Vacuolization Cytoplasmic, Diffuse | | | | | | 1 | | 1 | 1 | | | 2 | 2 | | 1 | 1 | | | | 2 | | | 1 | 1 | 1 | 25 | 1.2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | 1 | 1 | 1 | | | 2 | 2 | 2 | | | | 2 | | | | | | | 2 | 1 | 16 | 1.6 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | 1 | | | | | | | | | 2 | 1.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3 | 2.3 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | 1 | | | | | | 1 | | | | | | | | | | | 4 | 1.3 |
| Pars Distalis, Hyperplasia | | | 1 | 1 | 3 | 1 | 2 | 1 | | 2 | 1 | | | 2 | 1 | | | | 2 | | | | 2 | | 2 | 18 | 1.7 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | | | 1 | | | | | | | 1 | 1 | 4 | 1 | 4 | | 1 | | 1 | | 1 | | | | 1 | | 29 | 1.4 |
| Follicle, Hyperplasia | | | | | | | 1 | | | | | | | 1 | | | 1 | | | | | | | | | 7 | 1.3 |
| Follicular Cell, Hypertrophy | 2 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | | 1 | 2 | | 1 | 1 | 37 | 1.2 | |

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| 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 | |
| 100 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 | 50 |
| 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 | 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 | 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 | 1 |
| | 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 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granuloma Sperm Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1.6 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 27 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1.7 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1.9 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Mediastinal, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 8 | 1.8 | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 48 | 3.9 |
| Epithelial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3.0 | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|----|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1 | 1 | 1 | 19 | 1.5 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3.0 | | | | |
| Lymphatic, Subcutaneous Tissue, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3.0 | | | | |

MUSCULOSKELETAL 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| 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 |
| 100 mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 2.0 |
| Bone Hyperostosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | 2 | | | | | | | | | | | | 1 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Brain Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | 2 | | | | | | | | | | | | | | | | | | | 1 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Lung Inflammation, Chronic Metaplasia, Osseous Alveolar Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | 1 | 1 | | | 1 | | 1 | | | | | 1 | | 2 | | 1 | | 1 | 14 |
| | | | | | | | | | | | | | | | | | | | | 1 | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | 4 |
| Nose Foreign Body | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 49 |
| | | | X | | | | X | | | X | | | | | | | | | | | X | 5 |
| Inflammation, Chronic Active | | | 1 | 1 | | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | 2 | | 1 | | 2 | 1 | | 32 |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | | | | 1 | | | | 2 | 1 | 1 | | | | | 1 | | | | | 1 | | 18 |
| Nerve, Olfactory Epithelium, Atrophy | | | | 1 | | | | | | | | 1 | 3 | | 2 | | 1 | 1 | 1 | | 1 | 17 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | 1 | 1 | 1 | 1 | | 2 | 2 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 2 | | 1 | | 43 |
| Olfactory Epithelium, Atrophy | | 1 | | 1 | | | | | 1 | | 2 | 1 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | | 2 | 26 |
| Olfactory Epithelium, Pigmentation | | | 1 | 2 | | 1 | | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 39 |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | 1 | 1 | 1 | 1 | | 3 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | | 1 | 2 | 30 |
| Respiratory Epithelium, Hyperplasia | | | | 1 | | | 2 | 2 | 1 | 1 | 2 | 1 | | 2 | 2 | | | | 1 | 1 | | 28 |
| Transitional Epithelium, Hyperplasia | | | | | | 1 | 1 | | 1 | | | | | | 1 | | | 1 | 2 | | 1 | 18 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| 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 |
| 1 | 6 | 6 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 7 | 7 | 7 | 50 |
| 5 | 8 | 7 | 7 | 8 | 8 | 8 | 4 | 8 | 8 | 8 | 7 | 7 | 5 | 8 | 7 | 8 | 7 | 7 | 9 | 2 | 9 | 2 | 50 |
| 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 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7 | 7 | 7 | 7 | 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 | 0 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | 3 | | | | | 3 | | | | | 4 2.5 |
| Degeneration | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | 3 | | | | 1 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation | | | | | | | | | | | | | 1 | | | | | | | | | | 2 1.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy | | | 2 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 4 | 1 | 2 | 1 | 49 2.0 |
| Papilla, Necrosis | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | 2 | | | | | | | | | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| FISCHER 344 RATS MALE | DAY ON TEST | 0727 | 0728 | 0727 | 0662 | 0667 | 0666 | 0672 | 0677 | 0677 | 0677 | 0667 | 0677 | 0558 | 0664 | 0554 | 0663 | 0692 | 0728 | 0662 | 0727 | 0772 | 0777 | 0707 | 0777 | 0554 |
| | ANIMAL ID | 0010 | 0011 | 0012 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 |

300 mg/kg

males (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | X | X | | | | | X | X | X | | X | | | | | | X | X | | X | | | | | |
| Clear Cell Focus | X | | | | | | | X | X | X | | | | | | | | X | X | | X | | | | | |
| Degeneration, Cystic | 1 | | | | | 1 | | | | 1 | | | | | | | | 1 | | | 1 | | | | 1 | |
| Eosinophilic Focus | X | | | | X | | | | | X | X | | X | | X | | | | | X | X | X | X | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | X | | | | | | | | | | | | X | | | | |
| Inflammation, Chronic | 1 | 1 | 2 | | 1 | | | | 1 | 2 | | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | | | | | |
| Mixed Cell Focus | X | X | X | | | | | | X | X | X | | X | | | | | X | X | | X | | | | | |
| Necrosis | | | | 2 | | 2 | | | | | | | | 2 | 2 | | | | | | | | | | | 1 |
| Bile Duct, Hyperplasia | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Hepatocyte, Fatty Change | 1 | 1 | 1 | | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | | | 3 | 3 | | | | | | | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
300 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|------------------|------------------|
| | 0
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7 | 0
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2 | 0
6
1
7 | 0
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2
1 | 0
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6 | 0
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8 | 0
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7 | 0
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2
8 | 0
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5 | 0
7
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8 | 0
6
2
8 | 0
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3
4 | 0
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9
5 | 0
7
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8 | 0
6
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9 | 0
7
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6 | 0
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7 | 0
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2
8 | | | 0
6
0
6 | 0
7
2
7 | 0
7
2
8 | 0
7
2
7 | 0
5
4
7 |
| Hepatocyte, Hypertrophy | 3 | | 2 | | | | | | | 3 | 2 | | | | | 2 | 1 | 2 | 3 | 2 | 3 | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Atrophy | 1 | | | | 1 | | 2 | | 1 | | | | | 1 | 1 | | | | | | | | | | | | |
| Acinus, Hyperplasia | | 2 | | | | | | | | | | | | | 1 | | | | | | | 4 | | | | | |
| Duct, Cyst | 1 | | | | 1 | | 1 | | | | | | | | | | | | | | | 1 | | 1 | 1 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | 3 | | | | | 2 | | | | | | | | | 3 | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Ectasia | 1 | 1 | | | | | | | | | | | 1 | 1 | | | | | | | | 1 | | 1 | | 1 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | 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 | | |
| 300 mg/kg | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 0 | |
| | 2 | 2 | 2 | 9 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 8 | 6 | 3 | 9 | 2 | 2 | 2 | 2 | 0 | 2 | 4 | 7 | 0 | |
| | 7 | 8 | 7 | 2 | 7 | 1 | 6 | 8 | 7 | 8 | 5 | 8 | 7 | 8 | 4 | 4 | 5 | 8 | 9 | 2 | 6 | 2 | 8 | 7 | 7 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 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 | |

males (cont...)

Valve, Inflammation, Chronic

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Focal | 1 | 2 | | | | 2 | | | | 1 | | | | | | | | | | | | 1 | | | | |
| Hypertrophy, Focal | 2 | 2 | 2 | | | | | | | | | 2 | | | | | | | | | 2 | | | | | |
| Hypertrophy, Diffuse | | | | | | | 2 | 2 | | | | | | | | | | | | | 2 | | | | | |
| Necrosis | | | | | | | | | 2 | | | | | | | | | | | | | | | 3 | | |
| Vacuolization Cytoplasmic, Focal | 1 | 2 | 1 | | 1 | | | | | 1 | 1 | | 1 | 1 | | | | | | | | | 1 | 2 | | |
| Vacuolization Cytoplasmic, Diffuse | | | 1 | 1 | | 1 | 1 | 2 | | | | 2 | | 1 | 2 | 2 | 1 | 2 | | 1 | 2 | 1 | 1 | 1 | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | 2 | | | 2 | | 2 | | | | | | | | 1 | | | 3 | | | | | 1 | | | | |
| Necrosis | | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 3 | | 2 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | 1 | | | | | | 2 | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | 1 | | | 1 | 3 | | | 1 | | | | 1 | 2 | |
| Thyroid Gland | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| C-cell, Hyperplasia | 1 | | | 1 | | 1 | | 1 | 2 | | | 1 | 2 | 2 | | | | 2 | 4 | | 2 | 1 | 2 | 1 | 2 | 1 |
| Follicle, Hyperplasia | | | | | | | | | | | | | 3 | 1 | | 2 | | | 1 | | 4 | | | | | |

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
300 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|-----------------------|--------------------|------------------|
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7 | 0
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7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
1
0
1 | males
(cont...) | |
| Follicular Cell, Hypertrophy | 1 | 2 | 2 | | 1 | | 1 | 1 | 2 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland
 Inflammation, Chronic

+
2

Epididymis
 Granuloma Sperm

+
 2 1

Preputial Gland
 Inflammation, Chronic
 Metaplasia, Cartilagenous

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

Prostate
 Hyperplasia
 Inflammation

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

Seminal Vesicle
 Inflammation

+
 4

Testes
 Germinal Epithelium, Atrophy
 Germinal Epithelium, Necrosis

+
 4
 1

HEMATOPOIETIC SYSTEM

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

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

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|--|
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| 300 mg/kg | | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 | 7 | 7 | 6 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | males
(cont...) | | |
| ANIMAL ID | | 2 | 2 | 2 | 9 | 1 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 8 | 6 | 3 | 9 | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 8 | 7 | 2 | 7 | 1 | 6 | 8 | 7 | 8 | 5 | 8 | 7 | 8 | 4 | 4 | 5 | 8 | 9 | 2 | 7 | 6 | 7 | 0 | 0 | 0 | 0 | 0 | | |
| Bone Marrow | | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | | | | | | | |
| Hyperplasia | | 2 | 1 | | | | | | 2 | 1 | | | | 2 | 2 | | 4 | 4 | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | + | | | + | | | | + | | | | | | | | | | | | | | | | + | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | |
| Ectasia | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | 2 | 2 | 3 | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | | | | | | | | |
| Thymus | | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | | | | | | | |
| Atrophy | | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | | 4 | 4 | 4 | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Duct, Cyst | | 3 | 1 | | | 2 | | | | | | 1 | | | | 1 | | | | | 2 | 1 | 1 | | | | | | | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |

* .. 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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1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

TDMS No. 99031 - 03
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 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 | 7 | 7 | 6 | 7 | 7 | 5 | 5 | |
| | | 2 | 2 | 2 | 9 | 1 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 8 | 6 | 3 | 9 | 2 | 2 | 6 | 2 | 7 | 2 | 0 | 4 | |
| 300 mg/kg | | 7 | 8 | 7 | 2 | 7 | 1 | 6 | 8 | 7 | 8 | 5 | 8 | 7 | 8 | 4 | 4 | 5 | 8 | 9 | 2 | 8 | 9 | 7 | 7 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |

**males
(cont...)**

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Hyperostosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | 2 | | | | | | | | | | | | | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | 2 | | | | | 1 | 2 | 1 | | | 2 | | 3 | | | | 1 | 1 | | | | |
| Metaplasia, Osseous | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | |
| Nose | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | X | X | | | | | | X | X | | | | | | X | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | 2 | 2 | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | | 1 | 3 | 2 | | 2 | 2 | |
| Synechia, Focal | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | 2 | 1 | 1 | | | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | | 2 | | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | |
| Goblet Cell, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve, Olfactory Epithelium, Atrophy | 2 | 2 | 2 | | | | | 2 | | | 3 | | | | | 2 | 2 | | 2 | | | 2 | 2 | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | | | | 1 | | 1 | | | | 2 | | | 1 | | | | | | | | | | 1 | |
| Olfactory Epithelium, Atrophy | 2 | 2 | 2 | | | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 2 | | 2 | 1 | 2 | 2 | 1 | 2 | 1 | | 2 | 2 | |

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

| FISCHER 344 RATS MALE
300 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 5 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | |
| | 2 | 2 | 2 | 9 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 8 | 6 | 3 | 9 | 2 | 2 | 6 | 2 | 2 | 0 | 2 | 4 | 7 | |
| | 7 | 8 | 7 | 2 | 7 | 1 | 6 | 8 | 7 | 8 | 5 | 8 | 7 | 8 | 4 | 4 | 5 | 8 | 9 | 2 | 7 | 8 | 6 | 7 | 7 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |
| Olfactory Epithelium, Foreign Body | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Pigmentation | 2 | 2 | 2 | | | 1 | | 2 | 2 | 2 | 1 | 1 | 1 | 2 | | 1 | 3 | 2 | 1 | 1 | 2 | 1 | 1 | | | | |
| Olfactory Epithelium, Respiratory Metaplasia | 3 | 3 | 2 | | | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | 2 | 2 | 2 | | 2 | 2 | | | | |
| Respiratory Epithelium, Hyperplasia | 2 | 2 | 2 | | | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | | |
| Transitional Epithelium, Hyperplasia | 2 | 2 | 2 | | | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | | | | |
| Pleura | | | | | + | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

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

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infarct | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Nephropathy | 2 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 1 | 3 | 2 | 2 | 4 | 2 | 3 | 1 | 2 | 2 | |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| | 060 | 068 | 072 | 077 | 084 | 087 | 092 | 097 | 102 | 107 | 112 | 117 | 122 | 127 | 132 | 137 | 142 | 147 | 152 | 157 | 162 | 167 | 172 | 177 | |
| 300 mg/kg | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | |
| | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | |
| | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | |
| | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 1.0 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
5 1.6 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | 1 | | | | | | 1 | | | | | | | | | 2 1.0 |
| Basophilic Focus | | | | X | | X | | X | X | | | X | X | X | X | | | X | X | X | | | X | | 23 |
| Clear Cell Focus | | | | X | | | | X | X | | | X | X | X | X | | | | X | X | | | X | | 18 |
| Degeneration, Cystic | 1 | | | | | | | | | 1 | | | | 1 | 1 | | | | | | | | | | 10 1.0 |
| Eosinophilic Focus | X | X | | | | X | | | | X | | X | X | | X | X | | X | | | | | | | 19 |
| Hepatodiaphragmatic Nodule | | | | X | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic | 1 | | | 1 | | | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 30 1.1 |
| Mixed Cell Focus | | | | X | | X | X | | X | X | X | | X | X | X | X | | | X | X | X | | X | | 24 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 3 | | | 6 2.0 |
| Bile Duct, Hyperplasia | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | | 2 | 4 | 4 | 46 2.0 |
| Hepatocyte, Fatty Change | | | 1 | 1 | | | 3 | | | | | | 1 | | 1 | | | 2 | 1 | 1 | | 3 | | | 23 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

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 Lab: BAT

| FISCHER 344 RATS MALE

300 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----------|-----------|-----------|------------|------------|
| | 060 | 068 | 072 | 077 | 084 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | | | | | | |
| ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | | | | | | |
| Hepatocyte, Hypertrophy | 2 | | | 2 | | | | 4 | 3 | 1 | 2 | | | | 2 | 2 | 2 | 1 | 2 | 1 | | 2 | 2 | 2 | | 2 | 26 | 2.1 | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Mesentery | | | + | | | | | | | + | | | | | | | | | | | | | | | | | 8 | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 2 | 5 | 3.2 | |
| Pancreas | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Acinus, Atrophy | | | | | | | | 1 | 1 | | | | 2 | 1 | | 1 | | 2 | | | | | | | 1 | 1 | 14 | 1.2 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | 2 | | | | 5 | 2.2 | |
| Duct, Cyst | | | | | | 1 | | | | | | | | | | | | | | | 1 | 1 | | 1 | | | 10 | 1.0 | |
| Salivary Glands | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Stomach, Forestomach | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 3.2 | |
| Mineralization | | | | | | | | | | 3 | | | | | | | | | | | | | | 4 | | 4 | 1 | 4.0 | |
| Ulcer | | | | | | | | | | | 3 | | | | | | | | | | | | | 2 | | 4 | 4 | 3.0 | |
| Stomach, Glandular | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Glands, Ectasia | | | | | | | 1 | 2 | 1 | | | | 1 | 1 | 1 | 1 | 1 | | 2 | | | | | | | 1 | | 19 | 1.1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---|----------|------------|------------|
| Blood Vessel | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Heart | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Cardiomyopathy | | | 2 | 1 | 2 | 1 | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 3 | 2 | 49 | 1.8 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 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
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|------------------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-------|-------|--|
| | 060 | 068 | 072 | 077 | 084 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | | 077 | 077 | | |
| 300 mg/kg | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 3 | 1 3.0 | | |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | | | |
| | 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 | 3 | 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 | 0 | | |
| Valve, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Focal | | | | | | 1 | | | | | 1 | | | | | | | 1 | | | | | | 9 | 1.2 | |
| Hypertrophy, Focal | | | | | | | 1 | | | 3 | 2 | 1 | | | | | | | | | | | | 9 | 1.9 | |
| Hypertrophy, Diffuse | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | 5 | 1.8 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Vacuolization Cytoplasmic, Focal | | | | | | | 1 | | | 2 | 2 | | 1 | | 1 | | | | | 1 | | | | 16 | 1.3 | |
| Vacuolization Cytoplasmic, Diffuse | 1 | | 1 | | 1 | 1 | 1 | | | | 1 | 1 | | | 1 | 1 | | 2 | 1 | 1 | | 2 | 2 | 1 | 33 | 1.3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | 3 | 1 | | | | | | | | | | | | | | | | | 8 | 1.9 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | 1 | | | | | | | | | | 2 | | | | 2 | | | | | | 5 | 2.0 | |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 48 | |
| Hyperplasia | | | | | | | 1 | | | | | | | | | | | | | | | | 4 | | 2 | 2.5 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 | 2.0 | |
| Cyst | | | | 1 | | | | | | | | | | | 2 | 2 | 1 | | 2 | | | | | 7 | 1.6 | |
| Pars Distalis, Hyperplasia | 2 | | 2 | 1 | | | 1 | | | | 1 | 1 | | | 1 | 1 | 1 | | 2 | 2 | | 2 | | 18 | 1.4 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| C-cell, Hyperplasia | | | | 3 | | 1 | 1 | | | 1 | 1 | 1 | 2 | 1 | | | 1 | 2 | | | 1 | | 1 | 27 | 1.5 | |
| Follicle, Hyperplasia | | | | | | | | 3 | | | | | | | | 1 | | | 3 | | | 3 | | 9 | 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

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

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE

300 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|------------|
| | 060 | 065 | 067 | 067 | 064 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 067 | 066 | 067 | 067 | 067 | 066 | 067 | |
| | 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 | 001 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | |
| | 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 | |
| | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | 41 | 1.3 |

Follicular Cell, Hypertrophy

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland
 Inflammation, Chronic

1
 1 2.0

Epididymis
 Granuloma Sperm

| | | |
|---|----|-----|
| + | 50 | |
| 1 | 3 | 1.3 |

Preputial Gland
 Inflammation, Chronic
 Metaplasia, Cartilagenous

| | | |
|---|----|-----|
| + | 50 | |
| 1 2 2 2 2 2 2 2 1 2 1 2 2 1 1 1 1 2 2 2 2 1 1 | 47 | 1.7 |
| 2 | 1 | 2.0 |

Prostate
 Hyperplasia
 Inflammation

| | | |
|---|----|-----|
| + | 50 | |
| 2 | 3 | 1.0 |
| 3 3 1 2 1 2 | 25 | 1.9 |

Seminal Vesicle
 Inflammation

| | | |
|---|----|-----|
| + | 50 | |
| 4 | 2 | 4.0 |

Testes
 Germinal Epithelium, Atrophy
 Germinal Epithelium, Necrosis

| | | |
|---|----|-----|
| + | 50 | |
| | 1 | 4.0 |
| | 1 | 1.0 |

HEMATOPOIETIC SYSTEM

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

| FISCHER 344 RATS MALE
300 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----|-----|
| | 060 | 068 | 072 | 077 | 084 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | | | | |
| ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Hyperplasia | | 4 | | | | | | 3 | 1 | 1 | | | 3 | 2 | | 1 | 2 | | | | | 1 | | 4 | 21 | 2.4 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Lymph Node | | + | + | | + | | | + | | | | | | | | | | | | | | | | | 9 | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 1 | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | 2.5 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | 2 | | | | | | | 2 | 4 | 1.8 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | | |
| Atrophy | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 46 | 3.9 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Duct, Cyst | | | | | | | 2 | | | | | | | | 2 | | | | | | | | | | 1 | 1 | 13 | 1.5 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|
| | 06 | 05 | 07 | 07 | 04 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | | 07 |
| 300 mg/kg | 06 | 08 | 02 | 02 | 08 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 08 | 02 | 07 | 02 | 50 |
| ANIMAL ID | 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 | |
| | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | |
| | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Bone Hyperostosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Inflammation, Chronic | | | | 1 | | | | | | | | | | 1 | | | | 1 | | | | 1 | | | 12 | 1.4 | |
| Metaplasia, Osseous | | | | | | | 1 | | | | | | | | | | | | | | | | | | 2 | 1.0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Foreign Body | | | | X | | | | | | | | | X | X | | | | | X | | | | | | 9 | | |
| Hemorrhage | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Inflammation, Chronic Active | 2 | | 2 | 2 | 2 | 1 | 3 | 1 | 2 | | | | 2 | 2 | 2 | 2 | 3 | | 1 | 2 | | 1 | | | 38 | 1.9 | |
| Synechia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | 1 | | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | | 1 | 1 | | 1 | 1 | | 41 | 1.7 | |
| Goblet Cell, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 | 2.0 | |
| Nerve, Olfactory Epithelium, Atrophy | 2 | | | | | | 3 | | 2 | 2 | | | | | | | | | | | | | | | 14 | 2.1 | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | 1 | | | 1 | | | | 1 | 1 | 1 | | 1 | | | | 1 | 1 | | | 1 | | | | 14 | 1.1 | |
| Olfactory Epithelium, Atrophy | 2 | | 1 | 3 | | 1 | 1 | 3 | 1 | 2 | 2 | | 1 | | 2 | 2 | | 1 | 1 | | 1 | | 2 | 1 | | 37 | 1.6 |

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
300 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|----|-----|----|-----|
| | 060 | 068 | 072 | 077 | 084 | 087 | 092 | 097 | 102 | 107 | 112 | 117 | 122 | 127 | 132 | 137 | 142 | 147 | 152 | 157 | | 162 | 167 | | | | |
| ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | | | | | |
| Olfactory Epithelium, Foreign Body | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Olfactory Epithelium, Pigmentation | 1 | 1 | 1 | 3 | | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | | 2 | 2 | 1 | 2 | 2 | 42 | 1.7 | | |
| Olfactory Epithelium, Respiratory Metaplasia | 1 | | 1 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 1 | 2 | | 2 | 2 | 2 | 2 | | 40 | 2.0 | | |
| Respiratory Epithelium, Hyperplasia | 1 | | 1 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 2 | 4 | | 1 | 2 | 2 | 1 | 2 | 1 | 45 | 1.8 |
| Transitional Epithelium, Hyperplasia | 2 | | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 1 | 1 | 2 | 1 | 43 | 1.9 |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Nephropathy | 3 | 1 | 2 | 2 | | 4 | 4 | 4 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 1 | 4 | 1 | 2 | 3 | 2 | 2 | 4 | 3 | 49 | 2.4 |
| Renal Tubule, Cyst | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 | 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 M .. Missing tissue
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 BLANK .. Not examined microscopically

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TDMS No. 99031 - 03
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------------|-------|-------|-------|-------|------|
| | 0728 | 0727 | 0727 | 0669 | 0668 | 0668 | 0665 | 0662 | 0669 | 0667 | 0667 | 0667 | 0665 | 0667 | 0665 | 0667 | 0668 | 0665 | 0660 | 0661 | | | 0667 | 0667 | 0662 | 0662 | 0669 |
| 1000 mg/kg | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | 00174 | 00175 | 00176 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Inflammation, Acute
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | X | X | | X | | X | X | | | | | | | | | X | | X | | | X | | X | | X |
| Clear Cell Focus | | X | X | | | | | X | | | | | | | | | | | | | | | X | X | | |
| Degeneration, Cystic | | | | | 1 | | 2 | 1 | 1 | 1 | | | 1 | 1 | | | | | | | | | | 1 | | |
| Eosinophilic Focus | | X | | | | | X | | | X | | | | | | | | | X | X | X | X | | | | |
| Inflammation, Chronic | | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | | | | | | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | |
| Mixed Cell Focus | X | X | X | | | | | | | X | | | | | | | | | | X | | X | X | | | |
| Necrosis | | | | | 2 | 3 | | | 1 | | | | | | | 3 | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|
| | 0728 | 0727 | 0727 | 0669 | 0668 | 0668 | 0665 | 0662 | 0679 | 0667 | 0677 | 0677 | 0666 | 0677 | 0665 | 0677 | 0668 | 0650 | 0651 | 0671 | | | 0677 | 0677 | 0677 | 0664 |
| Bile Duct, Hyperplasia | 2 | 1 | 1 | 2 | 1 | 4 | | 1 | 2 | 2 | 2 | 4 | 2 | 2 | | 1 | 1 | | 2 | 4 | 3 | 2 | 1 | 1 | | |
| Hepatocyte, Fatty Change | 2 | 1 | 1 | | 2 | 1 | 1 | 2 | 2 | 2 | | | 1 | | 2 | | 1 | 2 | 2 | | 2 | | 1 | 2 | | |
| Hepatocyte, Hypertrophy | | | 2 | | | | | | 2 | 3 | | | | | 4 | | 3 | 3 | 3 | 3 | 2 | | | 2 | 3 | |
| Oval Cell, Hyperplasia | 2 | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Atrophy | 2 | 1 | | 1 | | | 1 | 1 | 1 | | | 1 | | 1 | | | | | 1 | | | | 1 | | | |
| Acinus, Hyperplasia | 1 | | | | 2 | | | | | 2 | | | | | | | | | 2 | | | 2 | | | | |
| Duct, Cyst | | | | | | 1 | | | | | | | | | | | | 1 | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | 3 | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | 2 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Ectasia | | | 1 | | | | | | | | 1 | | 1 | | | | | | | | | | | | | 1 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|-------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|-----|-----|-----|-----|
| | 078 | 077 | 077 | 069 | 068 | 068 | 066 | 066 | 066 | 072 | 067 | 067 | 067 | 066 | 072 | 067 | 067 | 066 | 059 | 055 | | | 077 | 077 | 077 | 077 | 066 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 001 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 002 | |
| | 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 | 003 | |
| | 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 | 004 | |
| | 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 | 005 | |

Aorta, Mineralization 3

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 |
| Atrium, Thrombosis | | | | | | | 4 | | | | | | 2 | | | | | | | | | | | |
| Myocardium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal | | | 1 | 2 | | | | | | | 2 | 1 | | | | | | | | | | 1 | 1 | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Hypertrophy, Diffuse | | | | | 2 | 2 | 2 | 2 | | | | | 2 | 2 | 2 | | | 3 | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic, Focal | 1 | | | | | | | | | | | 2 | | 1 | 1 | | | | | | | 1 | | 1 |
| Vacuolization Cytoplasmic, Diffuse | | | | 1 | 2 | 1 | 1 | 2 | | | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 3 | | 1 | 1 | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 3 | | | | | | 2 | | | | 1 | 2 | 1 | | | | 1 | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 | | 4 | | |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | 2 | 2 | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | 1 | | | | | | 1 | | | | | | | | | | 2 | 1 | |
| Pars Distalis, Hyperplasia | | | 2 | | | | | | | | | | | | | | | 1 | | | | 1 | 1 | 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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2) Mild 4) Marked

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 Species/Strain: RATS/F 344/N

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 Ginkgo biloba extract
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 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0728 | 0727 | 0727 | 0669 | 0668 | 0668 | 0665 | 0662 | 0669 | 0667 | 0667 | 0662 | 0662 | 0665 | 0667 | 0667 | 0668 | 0665 | 0665 | 0661 | | | 0667 | 0667 | 0668 |
| | 0 | 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 |

Pars Intermedia, Hyperplasia

2

Thyroid Gland

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

C-cell, Hyperplasia

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

Follicle, Hyperplasia

3 2

Follicular Cell, Hypertrophy

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis
Inflammation, Chronic

+ +

Preputial Gland
Inflammation, Chronic

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

Prostate
Hyperplasia
Inflammation

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

Seminal Vesicle
Inflammation

+
 4

Testes
Germinal Epithelium, Atrophy
Interstitial Cell, Hyperplasia

+ +

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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 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|-------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|-----|-----|
| | 078 | 077 | 077 | 069 | 068 | 066 | 066 | 066 | 066 | 072 | 067 | 067 | 067 | 066 | 072 | 067 | 067 | 066 | 059 | 055 | | | 077 | 077 | 077 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 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 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 3 | 1 | 1 | | 2 | | 4 | | | 1 | 2 | 2 | | 3 | 3 | | | | | 1 | 4 | | | 1 | 4 |
| Lymph Node Deep Cervical, Hyperplasia, Plasma Cell | + | | | + | | | | | | | + | | + | | | | | | | | | + | | | |
| Mediastinal, Ectasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Plasma Cell | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mesenteric Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Necrosis | | | | | 3 | | 2 | 4 | | | | | | | 3 | | 3 | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | 3 | | | | 3 | | | | | | 3 | | 2 | 4 | 3 | | | | | | |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M |
| Epithelial Cell, Hyperplasia | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Duct, Cyst | | | | | 2 | 1 | | | 1 | | | | | | | | | 2 | | | | | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
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 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------------|------|
| | 0728 | 0727 | 0722 | 0719 | 0718 | 0716 | 0715 | 0714 | 0713 | 0712 | 0711 | 0710 | 0709 | 0708 | 0707 | 0706 | 0705 | 0704 | 0703 | 0702 | | | 0701 | 0700 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0011515511 | |

Skin
 Subcutaneous Tissue, Hemorrhage +

MUSCULOSKELETAL SYSTEM

Bone
 Hyperostosis +

NERVOUS SYSTEM

Brain
 Hippocampus, Necrosis +

Peripheral Nerve
 Axon, Degeneration +
 2

Spinal Cord +

RESPIRATORY SYSTEM

Lung
 Inflammation, Acute +
 Inflammation, Chronic 1 3 1 3 1
 Thrombosis 3 4
 Alveolar Epithelium, Hyperplasia 1 2 1

Nose
 Foreign Body +
 Inflammation, Chronic Active 2 2 2 1 3 2 3 X 3 2 1 1 3 2 2 3 3 1 2 1 X X
 Goblet Cell, Respiratory Epithelium, Hyperplasia 2 2 2 2 3 1 4 2 2 3 2 2 2 2 3 4 2 3 2

* .. 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
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 Lab: BAT

| 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 | | |
| 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 6 | 5 | 5 | 7 | 7 | 7 | 7 | 6 | 6 | 0 | |
| 2 | 2 | 2 | 9 | 8 | 8 | 6 | 0 | 2 | 6 | 2 | 2 | 6 | 2 | 7 | 1 | 5 | 9 | 1 | 9 | 1 | 1 | 2 | 2 | 2 | 4 | 0 | |
| 8 | 7 | 7 | 9 | 9 | 8 | 5 | 2 | 9 | 7 | 7 | 7 | 5 | 7 | 5 | 7 | 8 | 5 | 0 | 1 | 0 | 7 | 8 | 2 | 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 | |
| | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 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 | |
| Nerve, Olfactory Epithelium, Atrophy | 2 | 2 | 3 | 2 | 2 | | | | 4 | | 2 | 3 | 2 | 3 | | | | | | 3 | | | | 3 | | | |
| Olfactory Epithelium, Atrophy | 2 | 2 | 3 | 2 | 2 | | | | 3 | | 2 | 3 | 2 | 3 | | | 2 | | | 2 | | | 2 | 2 | | | |
| Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Olfactory Epithelium, Pigmentation | 3 | 2 | 3 | 1 | 2 | | | | 2 | | 3 | 3 | 2 | 3 | | | 1 | | | 2 | | | 3 | 3 | | | |
| Olfactory Epithelium, Respiratory Metaplasia | 3 | 2 | 3 | 3 | 3 | | | | 4 | | 4 | 4 | | 4 | | | 2 | | | 2 | | | 2 | 3 | 2 | | |
| Respiratory Epithelium, Hyperplasia | 2 | 2 | 2 | 3 | 2 | | | | 4 | | 2 | 2 | 3 | 2 | | | 2 | | 2 | 2 | 3 | | 3 | 2 | 2 | | |
| Submucosa, Fibrosis | | | | | | | | | 2 | | 2 | 2 | 1 | 1 | | | | | | | | | 1 | 2 | | | |
| Transitional Epithelium, Hyperplasia | 3 | 3 | 3 | 3 | 3 | | | | 4 | | 3 | 3 | 2 | 3 | | | 2 | | 1 | | 3 | | 3 | 3 | 2 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Anterior Chamber, Inflammation, Suppurative | | | | | | 3 | | | | | | | | | | | | | | 4 | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 4 | 3 | 3 | 2 | 4 | 2 | 2 | 4 | 4 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 1 | | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Pelvis, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

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 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0568 | 0710 | 0703 | 0727 | 0693 | 0665 | 0668 | 0663 | 0728 | 0564 | 0666 | 0773 | 0773 | 0777 | 0777 | 0777 | 0679 | 0725 | 0771 | 0778 | | 0561 | 0678 | 0661 | 0669 |
| 1000 mg/kg | 00176 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00090 |
| | 00176 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00090 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 1.0 |
| Intestine Large, Rectum
Inflammation, Acute
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0
5 1.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Basophilic Focus | | X | X | X | | X | | X | X | X | | X | | X | | X | | X | | X | | X | | X | 22 |
| Clear Cell Focus | | | | X | | | | X | X | X | | X | | X | | X | | X | | X | | X | | X | 11 |
| Degeneration, Cystic | | | | | 1 | 1 | | 1 | | | | | | 1 | 1 | | | | | | | | | 2 | 14 1.1 |
| Eosinophilic Focus | | | X | | X | X | X | X | | | X | | X | X | X | | X | | X | | X | X | X | X | 21 |
| Inflammation, Chronic | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 3 | 2 | | 1 | | | 1 | 1 | | | 1 | 1 | 1 | 32 1.2 |
| Mixed Cell Focus | | X | X | X | | | | X | X | X | | | | | X | | X | | X | | X | | X | | 17 |
| Necrosis | 1 | | | | | | | | | | | 3 | | 1 | | | | | | | | | | | 7 2.0 |
| Thrombosis | | | | | | | | | | | | 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:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE

1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
5
6
8 | 0
7
1
0 | 0
7
0
3 | 0
7
2
7 | 0
6
9
3 | 0
6
6
5 | 0
6
6
8 | 0
6
9
3 | 0
7
2
8 | 0
5
5
4 | 0
6
9
6 | 0
6
6
3 | 0
7
7
3 | 0
7
7
7 | 0
7
0
9 | 0
7
2
7 | 0
6
8
9 | 0
7
2
7 | 0
5
0
5 | 0
7
0
1 | | | 0
7
2
8 | 0
5
8
1 | 0
6
0
0 | 0
6
9
9 | | | | | | | | |
| ANIMAL ID | 0
0
1
7
6 | 0
0
1
7
7 | 0
0
1
7
8 | 0
0
1
7
9 | 0
0
1
8
0 | 0
0
1
8
1 | 0
0
1
8
2 | 0
0
1
8
3 | 0
0
1
8
4 | 0
0
1
8
5 | 0
0
1
8
6 | 0
0
1
8
7 | 0
0
1
8
8 | 0
0
1
8
9 | 0
0
1
9
0 | 0
0
1
9
1 | 0
0
1
9
2 | 0
0
1
9
3 | 0
0
1
9
4 | 0
0
1
9
5 | 0
0
1
9
6 | 0
0
1
9
7 | 0
0
1
9
8 | 0
0
1
9
9 | 0
0
1
9
0 | 0
0
1
9
1 | 0
0
1
9
2 | 0
0
1
9
3 | 0
0
1
9
4 | 0
0
1
9
5 | 0
0
1
9
6 | 0
0
1
9
7 | 0
0
1
9
8 | 0
0
1
9
9 |
| Bile Duct, Hyperplasia | 2 | 1 | 2 | 2 | 4 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 46 | 2.0 | | | | | | | | | |
| Hepatocyte, Fatty Change | 1 | | 1 | 1 | | 1 | 2 | | 1 | | 2 | | 2 | 1 | 2 | | 2 | 1 | 1 | | 1 | | 31 | 1.5 | | | | | | | | | | |
| Hepatocyte, Hypertrophy | | 1 | 3 | 3 | | 3 | 3 | 3 | 3 | 2 | | 3 | 3 | | 2 | | 2 | 3 | | | 2 | 4 | 27 | 2.7 | | | | | | | | | | |
| Oval Cell, Hyperplasia | 1 | | | | 3 | | 1 | | | | 3 | | 2 | | | 1 | | | | | | 1 | 10 | 1.8 | | | | | | | | | | |
| Mesentery | | | + | | | | | | | | | + | | | | | | | + | | | | 5 | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | 3 | | | | | | | | | | | 1 | 3.0 | | | | | | | | | | |
| Fat, Necrosis | | | 4 | | | | | | | | | | | | | | | 3 | | | | | 3 | 3.0 | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | 3 | | | | | | | | | | | 1 | 3.0 | | | | | | | | | | |
| Acinus, Atrophy | | 1 | 2 | | 1 | 1 | | | | 1 | | | | 1 | | 1 | | | 2 | 2 | | | 20 | 1.2 | | | | | | | | | | |
| Acinus, Hyperplasia | | | | 2 | 2 | | | 1 | 2 | | | | | | | | 2 | | 3 | | | 1 | 12 | 1.8 | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | 1 | | | | | | | | 3 | 1.0 | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | 3 | | | | 3 | | | | | | | 3 | | | 3 | 6 | 2.8 | | | | | | | | | | |
| Ulcer | | | | | | | 4 | | | | | 2 | | | | | | | | | | | 4 | 2.8 | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | | | | | |
| Mineralization | | | | | | 3 | | | | | | 2 | | | | | | | | | | | 6 | 2.3 | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | 2 | 2 | | | | | | | | | | 2 | 2.0 | | | | | | | | | | |
| Glands, Ectasia | 1 | 1 | | | | | | | | 1 | | | | | 1 | 1 | | 1 | | | 1 | | 12 | 1.0 | | | | | | | | | | |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

* .. 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

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 2) Mild 4) Marked

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----------|-----|-----|
| | 0568 | 0710 | 0702 | 0729 | 0666 | 0666 | 0669 | 0672 | 0659 | 0667 | 0667 | 0677 | 0677 | 0677 | 0677 | 0677 | 0668 | 0672 | 0675 | 0677 | 0677 | 0656 | 0666 | | | | |
| ANIMAL ID | 001766 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | | | | |
| Aorta, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 3.0 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cardiomyopathy | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 50 | 1.8 |
| Atrium, Thrombosis | | | | | | | | | | | | | 3 | | | | | | | | | | | | 3 | 3 | 3.0 |
| Myocardium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia, Focal | | | | | 2 | | 2 | | | | | | | | | | | | | | | | | | 8 | 1.5 | |
| Hypertrophy, Focal | | | | | | | | | | | | | | 2 | | | | | | | | 1 | | | 3 | 1.7 | |
| Hypertrophy, Diffuse | 2 | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | 11 | 2.1 | |
| Inflammation, Chronic | | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 | 2.0 | |
| Vacuolization Cytoplasmic, Focal | | | | | 2 | | 2 | 2 | | | | 2 | 1 | | | | | 1 | | | | | 1 | | 13 | 1.4 | |
| Vacuolization Cytoplasmic, Diffuse | 2 | | 1 | | 1 | 1 | 2 | 1 | | 1 | 1 | 2 | 1 | 1 | | 1 | 2 | | 1 | 1 | | | 1 | 2 | 34 | 1.3 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | | | | | 3 | | 2 | | | | | | | | 1 | | | | | | | | | 3 | 10 | 1.9 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Parathyroid Gland | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 47 | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | 2 | 2 | | | 2 | 2 | | | 7 | 2.3 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 | |
| Cyst | | | 2 | | | | | | | | | 3 | | 1 | | 1 | | | | | | | | | 8 | 1.5 | |
| Pars Distalis, Hyperplasia | | | 1 | 2 | 1 | 2 | | | | 1 | 1 | | | 1 | | 2 | 3 | 1 | | | | | | | 16 | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
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 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--------|--------|
| | 0568 | 0710 | 0703 | 0727 | 0693 | 0665 | 0668 | 0663 | 0779 | 0525 | 0669 | 0667 | 0777 | 0777 | 0777 | 0777 | 0678 | 0777 | 0575 | 0777 | | 0575 | 0666 | 0666 | |
| ANIMAL ID | 00176 | 00011 | 00077 | 00077 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | 00088 | | |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| C-cell, Hyperplasia | 1 | | | 1 | | | 1 | 1 | 1 | | | | | | | 1 | 1 | | | 1 | | | 1 | 24 1.0 | |
| Follicle, Hyperplasia | | | | | 4 | | 4 | | | | | | 1 | | | | | | | | | | | 5 2.8 | |
| Follicular Cell, Hypertrophy | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | | 2 | 2 | 41 1.8 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 49 1.9 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | 4 1.3 | |
| Inflammation | 3 | 1 | 1 | 1 | | 3 | 3 | 2 | | | 2 | 2 | 1 | | 3 | | 2 | | 2 | 3 | | 1 | 2 | 3 | 32 2.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | 1 | | | | | | | | | | | | | | 2 | | | | 2 | | | | | 4 2.3 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | | 4 | | | | | | | | | | | 1 4.0 | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 | |

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
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1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------|--|
| | 0568 | 0710 | 0773 | 0773 | 0666 | 0666 | 0666 | 0666 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| 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 | |
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
26 2.3 |
| Lymph Node
Deep Cervical, Hyperplasia, Plasma Cell
Mediastinal, Ectasia
Mediastinal, Hyperplasia, Lymphoid
Mediastinal, Hyperplasia, Plasma Cell
Pancreatic, Necrosis
Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 10
1 2.0
1 3.0
3 2.7
1 3.0
1 2.0
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 | M | 0 |
| Lymph Node, Mesenteric Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0 |
| Spleen
Hematopoietic Cell Proliferation
Necrosis
Lymphoid Follicle, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
6 2.8
1 2.0
14 2.8 | |
| Thymus
Atrophy
Epithelial Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
46 3.9
1 2.0 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|
| Mammary Gland
Hyperplasia
Duct, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 4.0
12 1.3 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|-------------|
| | 0568 | 0710 | 0702 | 0793 | 0665 | 0668 | 0669 | 0672 | 0675 | 0668 | 0676 | 0677 | 0677 | 0677 | 0677 | 0677 | 0668 | 0677 | 0675 | 0677 | | 0675 | 0666 | 0666 |
| ANIMAL ID | 001766 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | 000117 | |
| Skin
Subcutaneous Tissue, Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone
Hyperostosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain
Hippocampus, Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 1.0 |
| Peripheral Nerve
Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1
1 2.0 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung
Inflammation, Acute | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 |
| Inflammation, Chronic | | 1 | | | | | | | | | | 2 | | | 2 | | | | | | | | | 8 1.8 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | 2 | | | | 1 | | | | | | 5 1.4 |
| Nose
Foreign Body | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
5 |
| Inflammation, Chronic Active | | 3 | 2 | 2 | 3 | 4 | 3 | 2 | 1 | 1 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | | 2 | 1 | 1 | 4 | 46 2.2 |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | | 3 | | 2 | 2 | | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | | 2 | 2 | | 2 | 34 2.1 |

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

TDMS No. 99031 - 03
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 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|----|-----|-----|
| | 0568 | 0710 | 0703 | 0727 | 0663 | 0665 | 0666 | 0666 | 0772 | 0559 | 0662 | 0666 | 0777 | 0777 | 0777 | 0777 | 0668 | 0772 | 0555 | 0777 | | 0556 | 0666 | 0666 | | | |
| ANIMAL ID | 001766 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | 00011777 | | | | |
| Nerve, Olfactory Epithelium, Atrophy | | | | 2 | 2 | | 2 | | 2 | | | | 3 | | | 3 | 3 | 2 | 3 | | | 1 | | 3 | | | |
| Olfactory Epithelium, Atrophy | | 2 | | 2 | 2 | | 2 | 2 | 2 | | 1 | 3 | 3 | 1 | | 3 | 3 | 2 | 3 | | | 1 | | 1 | 3 | | |
| Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Pigmentation | | 3 | | 2 | 1 | | 2 | 2 | 2 | | | 2 | 2 | 1 | | 3 | 2 | 2 | 2 | | | 2 | | 1 | 2 | | |
| Olfactory Epithelium, Respiratory Metaplasia | | 2 | | 2 | 3 | | 2 | 2 | 3 | 1 | 2 | 2 | 3 | 1 | | 3 | 2 | 2 | 2 | | | 2 | 2 | | 3 | | |
| Respiratory Epithelium, Hyperplasia | | 2 | | 2 | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | | 2 | 2 | 2 | 2 | | | 2 | 2 | | 3 | | |
| Submucosa, Fibrosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | 3 | | 3 | 3 | | 3 | 2 | 2 | | 1 | 1 | 2 | 2 | | 2 | 3 | 2 | | | | 2 | | | 3 | | |
| Trachea Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | 2.0 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye Anterior Chamber, Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney Hydronephrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Nephropathy | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Papilla, Necrosis | 2 | 2 | 2 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 3 | 2 | 4 | 50 | 2.9 |
| Pelvis, Inflammation, Acute | | | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|
| | 0568 | 0710 | 0703 | 0727 | 0663 | 0665 | 0666 | 0668 | 0772 | 0558 | 0669 | 0667 | 0770 | 0777 | 0777 | 0777 | 0668 | 0772 | 0557 | 0771 | 0777 | 0556 | 0666 | 0666 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0011776 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0011776 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0011776 | 2 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0011776 | 3 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0011776 | 4 |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |

*** END OF MALE DATA ***

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0729 | 0729 | 0728 | 0551 | 0730 | 0478 | 0770 | 0777 | 0777 | 0777 | 0777 | 0576 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0673 | 0777 | | |
| 0 mg/kg | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| | 1200 | 2200 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 | 0100 | 1100 | 2100 | 3100 | 4100 | 5100 | 6100 | 7100 | 8100 | 9100 | 0200 | 1200 | 2200 | 3200 | 4200 | 5200 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | 1 | | | | | 1 | | | | | | | | | | | | | | |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 2 | | | | | | | | 2 | | | 2 | | 1 | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | 1 | | | | | | | 1 | | | | | 1 | | | | | | | | | | |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | X | X | X | | X | | | X | X | | | | X | | | X | X | X | X | | | X | X | X |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | X | | | X | X | X | X | X | | | | X | | | | X | X | X | X | X | | | X |
| Fatty Change, Focal | | | | X | X | | | | X | | | | X | | | | | X | | | X | | | X |
| Hepatodiaphragmatic Nodule | | X | | | X | | | | | | | | | | | X | X | | | | | | | X |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | | | | X | X | | | X | X | | | X | X | | X | X | | X | | | X | | X | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Bile Duct, Hyperplasia | | | | | | | 1 | | | 1 | | | | | 1 | 1 | | | | | | | 1 | |

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 Lab: BAT

| FISCHER 344 RATS FEMALE
0 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|
| | 0
7
2
9 | 0
7
2
9 | 0
7
2
8 | 0
5
5
1 | 0
7
3
0 | 0
4
9
8 | 0
7
2
9 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
5
9
6 | 0
7
2
0 | 0
7
3
8 | 0
7
3
0 | 0
7
2
8 | 0
7
3
8 | 0
7
2
9 | 0
7
2
8 | 0
7
2
9 | | | 0
6
9
8 |
| Hepatocyte, Fatty Change | | | | 2 | | | | | | | 2 | 3 | | | | 1 | | | | | 1 | 1 | |
| Hepatocyte, Hypertrophy | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | + | + | | | | | + | | | | | | | | + | + | | | | |
| Fat, Necrosis | | | | 2 | 3 | | | | | 2 | | | | | | | | 2 | 3 | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Acinus, Atrophy | | 1 | 1 | 1 | | | | | 1 | 1 | 2 | | | 1 | | | 1 | | | | | 1 | |
| Acinus, Hyperplasia | 1 | | 1 | | | | | 3 | | | | | | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Glands, Ectasia | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 1 1 2 3 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |

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 Lab: BAT

| FISCHER 344 RATS FEMALE
0 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------------------|----------------------|----------------------|
| | 0
7
2
9 | 0
7
2
9 | 0
7
2
8 | 0
5
5
1 | 0
7
3
0 | 0
4
9
8 | 0
7
2
9 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
5
9
6 | 0
7
3
0 | 0
7
2
8 | 0
7
3
0 | 0
7
3
0 | 0
7
2
8 | 0
7
2
8 | 0
7
2
9 | 0
7
2
8 | 0
7
2
9 | 0
7
2
9 | 0
6
9
8 | 0
7
9
3 | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
2
0
1 | females
(cont...) | |
| Degeneration, Cystic | | | 1 | | | 2 | | 1 | | | | | 2 | 2 | | | 1 | | | | 1 | | | | 0
0
2
0
1 | females
(cont...) | |
| Hyperplasia, Focal | | | | | | | | | | | | 2 | | 1 | | | | | | 3 | | 1 | 2 | | 0
0
2
0
1 | females
(cont...) | |
| Hypertrophy, Focal | | | 2 | | | | | | | | | | | | | | | | | | | | | | 0
0
2
0
1 | females
(cont...) | |
| Hypertrophy, Diffuse | | | | | 1 | | | | | | | | | | | | | | | | | | | | 0
0
2
0
1 | females
(cont...) | |
| Vacuolization Cytoplasmic, Focal | 1 | | | | | | | | 1 | | 1 | 1 | | | 1 | | | | 2 | 1 | 1 | 1 | 1 | 0
0
2
0
1 | females
(cont...) | | |
| Vacuolization Cytoplasmic, Diffuse | | | | | | | | | | | | | | | | | | | | | 1 | | | | 0
0
2
0
1 | females
(cont...) | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | 1 | | | | | | | | 0
0
2
0
1 | females
(cont...) | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
2
0
1 | females
(cont...) | | |
| Hyperplasia | | | | 2 | | | | | | | | | 1 | | | | | | | | | 2 | | | 0
0
2
0
1 | females
(cont...) | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
2
0
1 | females
(cont...) | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 0
0
2
0
1 | females
(cont...) | |
| Parathyroid Gland | + | M | + | M | + | M | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | 0
0
2
0
1 | females
(cont...) | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 0
0
2
0
1 | females
(cont...) | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
2
0
1 | females
(cont...) | | |
| Cyst | 1 | 2 | | | 1 | 1 | | | | | | | | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | 0
0
2
0
1 | females
(cont...) | | |
| Pars Distalis, Cyst | | | | | | | | | | | | X | | | | | | | | | | | | 0
0
2
0
1 | females
(cont...) | | |
| Pars Distalis, Hyperplasia | | | | | 2 | | 2 | | | | 3 | 1 | | | | | 2 | | | 3 | | 2 | 2 | 0
0
2
0
1 | females
(cont...) | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0
0
2
0
1 | females
(cont...) | | |
| C-cell, Hyperplasia | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 2 | 0
0
2
0
1 | females
(cont...) | | |
| Follicle, Hyperplasia | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | 0
0
2
0
1 | females
(cont...) | | |
| Follicular Cell, Hypertrophy | 1 | 1 | | | | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | | 0
0
2
0
1 | females
(cont...) | | |

GENERAL BODY 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| 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 mg/kg | 7 | 7 | 7 | 5 | 7 | 4 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 0 | | |
| | 2 | 2 | 2 | 5 | 3 | 9 | 2 | 3 | 2 | 2 | 9 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 9 | 3 | 0 | |
| | 9 | 9 | 8 | 1 | 0 | 8 | 9 | 0 | 9 | 9 | 6 | 0 | 8 | 0 | 0 | 8 | 0 | 8 | 9 | 8 | 9 | 8 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 0 | |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | 2 | | | |
| Inflammation, Chronic | 1 | 1 | 2 | | 1 | 1 | 2 | | 1 | 2 | 1 | 2 | 1 | 1 | | 1 | | 1 | 1 | 1 | | 2 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | 2 | | | | | | | | | | | | | | | | | 3 | 1 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | 4 | | | | | | | | | | 3 | | | | 2 | | 4 | 4 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Congestion | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | 3 | | 1 | | | | | 1 | | | | | | | | | 4 | | 1 | 1 |

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

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

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

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| 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 | | |
| 0 mg/kg | 7 | 7 | 7 | 5 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 0 | |
| | 2 | 2 | 2 | 5 | 3 | 9 | 2 | 3 | 2 | 2 | 9 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 9 | 3 | 0 | |
| | 9 | 9 | 8 | 1 | 0 | 8 | 9 | 0 | 9 | 9 | 9 | 6 | 0 | 8 | 0 | 8 | 0 | 8 | 9 | 8 | 8 | 9 | 8 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 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 | 0 | |

Hyperplasia, Histiocytic
 Lymphoid Follicle, Atrophy

3 2 2 1 2

Thymus
 Atrophy

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

INTEGUMENTARY SYSTEM

Mammary Gland
 Duct, Cyst

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

Skin

+ +

MUSCULOSKELETAL SYSTEM

Bone

+ +

NERVOUS SYSTEM

Brain
 Hydrocephalus

+ +

Peripheral Nerve

+

Spinal Cord
 Congestion

+
 2

RESPIRATORY SYSTEM

Lung
 Cyst
 Inflammation, Chronic

+
 X
 1 1 1 1

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

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

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

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| 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 mg/kg | 7 | 7 | 7 | 5 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 0 | | |
| | 2 | 2 | 2 | 5 | 3 | 9 | 2 | 3 | 2 | 2 | 2 | 9 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 9 | 3 | 0 | |
| | 9 | 9 | 8 | 1 | 0 | 8 | 9 | 0 | 9 | 9 | 9 | 6 | 0 | 8 | 0 | 0 | 8 | 0 | 8 | 9 | 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 | 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 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 0 | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Inflammation, Chronic Active | 1 | 1 | 1 | | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | | | 1 | 1 | |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | 1 | | | | | | | | | | | | 1 | | | | | | 1 | | | | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 1 | 1 | | 3 | 1 | 2 | 2 | 3 | | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | |
| Olfactory Epithelium, Hemorrhage | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Respiratory Metaplasia | | | 1 | | | | | | | | | | 2 | | | | | | 1 | 1 | | | 2 | 1 | |
| Respiratory Epithelium, Hyperplasia | 1 | | | | | | | | | | | | 1 | 1 | 1 | | | | 2 | | | 1 | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | 1 | | | | | | | 1 | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | 1 | | | |
| Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

females
(cont...)

Renal Tubule, Pigmentation, Lipofuscin

Urinary Bladder
Inflammation, Acute

+ +

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
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TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

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 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0729 | 0641 | 0730 | 0722 | 0733 | 0770 | 0772 | 0777 | 0778 | 0779 | 0782 | 0783 | 0784 | 0785 | 0786 | 0787 | 0788 | 0789 | 0790 | 0791 | 0792 | 0793 | 0794 | 0795 | |
| 0 mg/kg | 0022 | 0022 | 0022 | 0022 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3 1.0 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 8 1.5 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | 1 | | | | | | | 1 | 1 | | | | | | | | 1 | | | | | | 7 1.0 |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | 48 |
| Clear Cell Focus | | | X | | X | | | | | | | | X | | | | | | | | | X | X | X | 20 |
| Degeneration, Cystic | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 1.0 |
| Eosinophilic Focus | | | X | X | X | X | | | | X | X | | X | | | X | X | | | | | X | | | 24 |
| Fatty Change, Focal | | | | | | | | | | X | | | | | | | X | | | | | X | X | | 11 |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 45 1.0 |
| Mixed Cell Focus | X | | X | X | X | | | | | X | X | X | | X | | X | | | X | | | X | X | X | 24 |
| Necrosis | | | | 1 | | | | | | 1 | | | | | | | | 1 | | | | 3 | | | 5 1.4 |
| Bile Duct, Hyperplasia | 1 | | | | | | | | | 1 | | | | 1 | 1 | | | 1 | | | | 1 | | | 11 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
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 1-4 .. Lesion qualified as:
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TDMS No. 99031 - 03
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--|
| | 0729 | 0641 | 0730 | 0772 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | |
| 0 mg/kg | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 002226 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | | |
| Hepatocyte, Fatty Change | | | | 1 | | | | | 3 | | | 1 | | | 1 | | | 2 | | | 2 | 2 | 1 | | 14 1.6 | |
| Hepatocyte, Hypertrophy | | | | | 1 | | | | | | 1 | | 2 | 2 | 2 | | 1 | | | | | | | | 7 1.4 | |
| Mesentery | | | | | | | | | | + | | | + | | + | + | | + | | | | | | | 10 | |
| Fat, Necrosis | | | | | | | | | | 3 | | | 2 | | 1 | 3 | | 3 | | | | | | | 10 2.4 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Acinus, Atrophy | 1 | | 1 | | | | | | 1 | | 1 | | | | 1 | | | | | | | | 1 | 1 | 17 1.1 | |
| Acinus, Hyperplasia | | | | 1 | | 1 | | | | | | | | | | | | | | | | | 1 | 1 | 5 1.4 | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Glands, Ectasia | | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | | | 1 | | | 1 | 1 | | | 1 | 1 | 1 | 35 1.0 | |
| Glands, Hyperplasia | | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 49 1.6 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--------|
| | 0729 | 0641 | 0730 | 0772 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 |
| ANIMAL ID | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Degeneration, Cystic | | | | 1 | 2 | | | | | 1 | | 2 | | | | | | | 2 | | | 12 1.5 |
| Hyperplasia, Focal | | | | 2 | | 1 | 2 | | | 2 | 1 | | | 1 | | | | | | | | 12 1.6 |
| Hypertrophy, Focal | 2 | | | | | | | | | 2 | 1 | | | | | | | | | 1 | 2 | 6 1.7 |
| Hypertrophy, Diffuse | | | | | | | | | | | | | | 1 | | 1 | | | | | | 3 1.0 |
| Vacuolization Cytoplasmic, Focal | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | | | | | 1 | | | | 1 | 23 1.0 |
| Vacuolization Cytoplasmic, Diffuse | | | | | | | | 1 | | | | | | | | | | 2 | 1 | | | 4 1.3 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Parathyroid Gland | M | + | + | M | M | + | + | M | + | M | M | + | + | + | + | + | + | M | + | + | + | 38 |
| Hyperplasia | | | | | | | | | | | | | | 3 | | | | | | | | 1 3.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | 1 | | 2 | | 1 | | | 2 | | 2 | 2 | 2 | | | | | | 2 | 2 | 1 | | 26 1.6 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Hyperplasia | | | | 3 | | | | | | 2 | | | | | | | | | | | | 11 2.2 |
| Thyroid Gland | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| C-cell, Hyperplasia | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | | | 1 | 2 | 1 | | 1 | 2 1 |
| Follicle, Hyperplasia | | | | | | | | | | | | | | | | | 2 | | | | | 3 1.3 |
| Follicular Cell, Hypertrophy | 1 | | | | | | | | | 1 | | | | | 1 | | | | | 1 | | 15 1.0 |

GENERAL BODY 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0729 | 0641 | 0730 | 0772 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| 0 mg/kg | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 50 |
| 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 | 3 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1.3 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic | 1 | | 1 | | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | | | | | | 1 | 1 | 1 | 36 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | 3 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 |
| Hyperplasia | | | 3 | | | | | | | | | | | | | | | | | | | | | | 7 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pancreatic, Congestion | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hematopoietic Cell Proliferation | | | 3 | | | | | | | | | | | | | | | | | | | | | | 14 |

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|-----|-----|-----|--|
| | 0729 | 0641 | 0730 | 0772 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | | | |
| 0 mg/kg | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 002226 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.0 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 1.0 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 49 | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | |
| Inflammation, Chronic Active | | | | 1 | | | | | 1 | 1 | | | | 1 | 1 | | | | 1 | 1 | | | | 1 | 22 | 1.0 | | | |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | 2 | 6 | 1.2 | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | | 2 | 2 | 2 | 2 | 2 | 1 | | 3 | 2 | 2 | 2 | 1 | 2 | | | 1 | 1 | 2 | | 1 | 2 | 2 | 3 | 3 | 44 | 2.0 | |
| Olfactory Epithelium, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 | |
| Olfactory Epithelium, Respiratory Metaplasia | | | | 1 | | | | | | | | | | | | | | | | 1 | | | | | | 8 | 1.3 | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | 1 | | | | | | | 2 | 1 | | | | | | 9 | 1.2 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 | 1.0 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | | | |
| Nephropathy | 1 | | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 2 | 1 | 1 | 2 | | | 1 | 1 | 1 | | | 2 | 1 | 41 | 1.1 | | | |
| Renal Tubule, Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 | | | |
| Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0729 | 0641 | 0730 | 0779 | 0770 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| 0 mg/kg | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 1 2.0 |
| | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 50 |
| Renal Tubule, Pigmentation, Lipofuscin | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder Inflammation, Acute | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 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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1-4 .. Lesion qualified as:
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TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|
| | 0609 | 0728 | 0629 | 0728 | 0728 | 0620 | 0720 | 0720 | 0333 | 0722 | 0722 | 0723 | 0723 | 0723 | 0723 | 0428 | 0722 | 0722 | 0723 | 0722 | 0721 | 0629 | 0624 | 0624 | | 0627 | 0623 |
| 100 mg/kg | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | 1 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| 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 | |
| Eosinophilic Focus | X | | | X | X | X | X | | | | | X | X | X | X | | | | | X | X | X | | | | | X |
| Fatty Change, Focal | X | X | | X | X | | | X | | | X | X | X | X | | | | | | X | | X | | | | | X |
| Hepatodiaphragmatic Nodule | X | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | | | 2 | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 |
| Mixed Cell Focus | | | | | | | | | X | | | | X | | | | | | X | X | X | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | 1 | 1 | 1 | | 1 | | | 1 | 1 | 1 | | 1 | 1 | | | | | | 1 | 2 | | | 1 | 1 | 1 |
| Hepatocyte, Fatty Change | 2 | | | | | | | | | | | | | | | | | | | | | 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
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0609 | 0728 | 0629 | 0728 | 0778 | 0670 | 0779 | 0773 | 0373 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | | |
| 100 mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | |
| | 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 | |
| | 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, Hypertrophy
Ito Cell, Hyperplasia | | | | | 2 | 1 | 2 | | | | | | | | | | | 1 | 1 | 1 | | | | 1 | |
| Mesentery
Fat, Necrosis | | | + | | | | | | | | + | | | | | | | | | | | | | | |
| | | | 3 | | | | | | | | 2 | | | | | | | | | | | | | | |
| Pancreas
Acinus, Atrophy
Duct, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | | 1 | 1 | | 1 | | | | 1 | | | | | | 1 | | 1 | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach
Inflammation, Chronic
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Stomach, Glandular
Inflammation, Chronic
Mineralization
Ulcer
Glands, Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | 1 | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | | | | 1 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel
Aorta, Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Heart
Cardiomyopathy
Atrium, Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | 2 | 2 | 1 | 1 | 1 | 1 | | 2 | 2 | | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|-------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------------------|----|----|
| | 06 | 07 | 06 | 07 | 07 | 06 | 07 | 07 | 03 | 07 | 07 | 07 | 07 | 07 | 04 | 07 | 07 | 07 | 06 | 06 | | | 06 | 07 |
| 100 mg/kg | 00 | 02 | 02 | 02 | 02 | 06 | 02 | 03 | 08 | 02 | 02 | 03 | 03 | 03 | 02 | 03 | 02 | 03 | 02 | 01 | 09 | 04 | 07 | 03 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | |
| | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 77 | 77 | 77 | 77 | |
| | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | | | | | | 1 | | | | | | | | 3 | | | | | | | | | |
| Hyperplasia, Focal | | 1 | | | | | | 2 | | | | 2 | 1 | | | | | 2 | | | | 2 | |
| Hypertrophy, Focal | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Hypertrophy, Diffuse | | | 2 | | | | | | 1 | | | | | 1 | | 2 | | | | | 1 | | |
| Vacuolization Cytoplasmic, Focal | | 1 | | | 1 | | | 1 | | 1 | 1 | | 1 | | | | | 1 | | | | | 2 |
| Vacuolization Cytoplasmic, Diffuse | | | 2 | | | | | | | | 1 | | | | | | | | 1 | | | 2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | M | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Cyst | 2 | | 1 | 1 | | 1 | | 2 | | 2 | 2 | 1 | 1 | 1 | 1 | | 1 | 2 | 2 | | | | 1 |
| Pars Distalis, Hyperplasia | | | 3 | | 2 | | 2 | | | | | 3 | | 1 | | 2 | | | | 2 | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | | | 1 | 1 |
| Follicle, Hyperplasia | | | | | | | | | | | | | | | 1 | 1 | | | | | | | |
| Follicular Cell, Hypertrophy | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

GENERAL BODY SYSTEM

NONE

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| 100 mg/kg | 0 | 2 | 2 | 2 | 2 | 6 | 2 | 3 | 8 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 9 | 4 | 7 | 3 | 0 | 0 | 0 | |
| | 9 | 8 | 9 | 8 | 8 | 0 | 9 | 0 | 3 | 9 | 9 | 0 | 0 | 0 | 8 | 3 | 9 | 9 | 0 | 9 | 1 | 2 | 4 | 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 |
| | 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 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | | |

females
(cont...)

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 1 | 3 | | | | | | | | 3 | | | | | 2 | | | | | | | | | | | | | |
| Vagina | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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. 99031 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ginkgo biloba extract
CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
Time Report Requested: 12:22:19
First Dose M/F: 03/23/05 / 03/24/05
Lab: BAT

| FISCHER 344 RATS FEMALE
100 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0609 | 0728 | 0669 | 0778 | 0778 | 0660 | 0770 | 0773 | 0383 | 0772 | 0773 | 0773 | 0773 | 0773 | 0773 | 0428 | 0729 | 0729 | 0733 | 0729 | 0711 | 0692 | 0664 | 0667 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Hematopoietic Cell Proliferation | 2 | | | | | | | | 1 | 1 | 1 | | | | | | | | 1 | 1 | | | | | | | 2 |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Lymphoid Follicle, Atrophy | | | | | | 2 | | | | | | | | | | 2 | | | | | | | | | 2 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | | |
| Atrophy | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | | |
| Ectopic Parathyroid Gland | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Ectopic Thyroid | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Duct, Cyst | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Artery, Meninges, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hypothalamus, Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

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

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
100 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0609 | 0708 | 0609 | 0708 | 0708 | 0600 | 0709 | 0709 | 0303 | 0709 | 0709 | 0709 | 0709 | 0709 | 0408 | 0709 | 0709 | 0709 | 0709 | 0602 | 0604 | 0607 | 0607 | 0607 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000251 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Infarct | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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

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TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
| | 0560 | 0696 | 0729 | 0475 | 0732 | 0774 | 0638 | 0360 | 0672 | 0775 | 0576 | 0767 | 0675 | 0765 | 0779 | 0770 | 0723 | 0732 | 0733 | 0633 | 0663 | 0668 | 0558 | | |
| 100 mg/kg | 00276 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 50 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 1.5 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
4 1.3 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Basophilic Focus | X | X | X | X | X | X | | | X | X | X | X | X | | X | X | X | X | | X | X | X | X | 43 |
| Clear Cell Focus | | | | | | | | | | | X | | | | | X | | | | | | | X | 7 |
| Eosinophilic Focus | | | | | X | X | | X | X | X | X | | | | X | X | X | X | | X | X | X | X | 30 |
| Fatty Change, Focal | | | | | X | | | | X | | X | X | | | X | | X | | | X | X | X | X | 25 |
| Hepatodiaphragmatic Nodule | | | | | | X | | | X | | | | | X | | | | | X | | | | | 7 |
| Inflammation, Chronic | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 41 1.0 |
| Mixed Cell Focus | | | | | X | | | | | | X | | X | | | | | | | X | X | X | X | 12 |
| Necrosis | | | | | | | | | | | | | | 3 | | 2 | | | | | | | | 2 2.5 |
| Bile Duct, Hyperplasia | 1 | | 2 | | 1 | 1 | 3 | | 1 | 1 | 1 | 1 | 1 | | 1 | | | 1 | 1 | | | | 1 | 31 1.1 |
| Hepatocyte, Fatty Change | | | | 2 | | | | | | | | 1 | 2 | | | | | | | | | 1 | | 7 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
100 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
| | 0560 | 0696 | 0722 | 0735 | 0770 | 0779 | 0804 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | 0809 | | 0809 | |
| ANIMAL ID | 00276 | 00078 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | | |
| Hepatocyte, Hypertrophy | 2 | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Ito Cell, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Pancreas
Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Duct, Hyperplasia | 1 | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | 13 | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Stomach, Forestomach
Inflammation, Chronic
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Glandular
Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Glands, Ectasia | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 37 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel
Aorta, Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Heart
Cardiomyopathy | 1 | 2 | 2 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 1 | 2 | 2 | 50 | |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0560 | 0669 | 0722 | 0473 | 0772 | 0663 | 0366 | 0677 | 0367 | 0677 | 0575 | 0777 | 0666 | 0777 | 0777 | 0272 | 0373 | 0272 | 0373 | 0272 | 0373 | 0373 | 0666 | 0575 | | 0888 |
| 100 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 | 0000 | |
| ANIMAL ID | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | 1 | | | | | | | 2 | | | 5 | 1.6 |
| Hyperplasia, Focal | | | | | | 2 | | | | | | 1 | | | | | | | | | | 1 | 2 | | 10 | 1.6 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | 3 | | | 2 | 2.5 |
| Hypertrophy, Diffuse | | | | | 1 | | | | | 2 | | | 1 | | | | 2 | | | | | | | 1 | 10 | 1.4 |
| Vacuolization Cytoplasmic, Focal | | | | 1 | | | 2 | 1 | | | | | 1 | | | | | | 2 | | | | | | 14 | 1.2 |
| Vacuolization Cytoplasmic, Diffuse | | | | | | | | | | | | | | | 1 | | | | | | | | | | 5 | 1.4 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | 1 | | | | | | | | | | | 1 | | | | | | | | | | 3 | 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | 2 | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Cyst | | | | | | | 2 | 1 | | 1 | 1 | | 1 | | | | | 1 | 2 | | | | 1 | 2 | 24 | 1.4 |
| Pars Distalis, Hyperplasia | 2 | 2 | | | | | 2 | | | | | | | | | | 2 | 1 | | | | | | | 13 | 1.9 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | 1 | | 1 | 1 | | 2 | 1 | | 1 | 1 | 2 | 3 | 1 | | 1 | 3 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 38 | 1.3 |
| Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | | 3 | 1.0 |
| Follicular Cell, Hypertrophy | 1 | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 41 | 1.0 |

GENERAL BODY SYSTEM

NONE

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|----------|
| | 0560 | 0696 | 0729 | 0475 | 0770 | 0674 | 0368 | 0669 | 0778 | 0779 | 0559 | 0775 | 0665 | 0775 | 0773 | 0772 | 0373 | 0773 | 0773 | 0633 | 0666 | 0568 | 0588 | | |
| 100 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 | 50 | |
| ANIMAL ID | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 4 | |
| | 777 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 1.3 | |
| | 67 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 1.3 | |
| | 67 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 2.0 | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|---|-----|
| Clitoral Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 4 | 1.3 | | |
| Inflammation, Chronic Mineralization | 1 | 1 | | | 1 | | | | 1 | 1 | 3 | | 2 | 2 | | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 39 | 1.3 | 1 | 2.0 |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.0 | | |
| Uterus Inflammation, Suppurative Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 1.0 | | |
| Endometrium, Hyperplasia, Cystic | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | |
| | 2 | | | 1 | 1 | 1 | | | | | | | | | | | | 2 | | | | | | 13 | 1.6 | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 11 | 2.7 |
| Lymph Node Deep Cervical, Hyperplasia, Lymphoid Mediastinal, Hemorrhage | + | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 2.0 |
| | 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 | 0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
100 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|
| | 0560 | 0696 | 0729 | 0475 | 0732 | 0779 | 0634 | 0368 | 0609 | 0728 | 0779 | 0555 | 0769 | 0770 | 0235 | 0732 | 0327 | 0378 | 0700 | 0773 | 0669 | 0668 | 0558 | 0588 | |
| ANIMAL ID | 00276 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | |
| Hematopoietic Cell Proliferation Hyperplasia, Histiocytic Infarct | 3 | 1 | | 1 | | | | 3 | | | 1 | 1 | | | | 2 | 3 | | | | | 1 | 1 | 2 | 18 1.6 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | 2 | | | | | 3 | | | | | | | | | 2 | 1 3.0 |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Ectopic Parathyroid Gland | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 47 3.9 | |
| Ectopic Thyroid | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Duct, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skin | | | 2 | | | | 2 | | | 2 | 1 | | 1 | | 1 | 2 | 1 | | | | | | 2 | 10 1.6 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain Artery, Meninges, Inflammation, Chronic Hypothalamus, Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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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 Ginkgo biloba extract
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 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
100 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| | 0560 | 0696 | 0729 | 0475 | 0770 | 0674 | 0368 | 0660 | 0722 | 0759 | 0575 | 0765 | 0777 | 0505 | 0679 | 0770 | 0235 | 0332 | 0730 | 0773 | | 0666 | 0588 |
| ANIMAL ID | 00276 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | |
| Inflammation, Chronic Metaplasia, Osseous | | | | | 1 | | | | | | | | | | | 1 | | | | | | | 3 1.0 |
| | | | | | | | | | | | | | | | | | | 1 | | | | | 1 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Foreign Body | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Inflammation, Chronic Active | | | | 2 | | | | | | | | | 2 | 1 | | | | | 1 | 1 | | | 16 1.2 |
| Goblet Cell, Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | 2 1.0 |
| Nerve, Olfactory Epithelium, Atrophy | | | | | 1 | 2 | | | | | | | 1 | | | | | 1 | 1 | | | | 15 1.1 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 1 | | 1 | 2 | 2 | | | | 3 | 2 | | 1 | | 3 | 2 | 1 | 1 | 1 | 1 | 2 | 39 1.7 |
| Olfactory Epithelium, Atrophy | | | | | 1 | | 2 | | | | | | 1 | | | | | 1 | | 1 | | | 18 1.1 |
| Olfactory Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Olfactory Epithelium, Pigmentation | | | | 1 | 2 | 1 | 2 | 2 | 1 | | | 1 | 1 | 2 | | | 1 | 2 | 1 | 2 | | 2 | 37 1.5 |
| Olfactory Epithelium, Respiratory Metaplasia | | | | 1 | | | | 1 | | | | | | | | | | | | | | | 4 1.3 |
| Respiratory Epithelium, Hyperplasia | | | | 1 | | | | | | | | 1 | 2 | | | | | | | | | 1 | 9 1.3 |
| Transitional Epithelium, Hyperplasia | | | | | | | 1 | | | | | | | | | | | | | | | 1 | 6 1.5 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | 3 | 2 3.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | 3 | 2 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | 6 1.3 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 99031 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
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 Lab: BAT

| FISCHER 344 RATS FEMALE
100 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|
| | 0560 | 0666 | 0729 | 0475 | 0773 | 0772 | 0648 | 0368 | 0669 | 0778 | 0779 | 0555 | 0765 | 0775 | 0773 | 0723 | 0723 | 0732 | 0732 | 0730 | 0773 | 0669 | 0666 | 0558 | |
| ANIMAL ID | 00276 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 1.5 | |
| Nephropathy | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 42 1.0 | |
| Renal Tubule, Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Renal Tubule, Mineralization | 1 | | | | | | | | | | | | | | | | | | | | | | | 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
 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| FISCHER 344 RATS FEMALE | 8 | 2 | 5 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 1 | 2 | 5 | 2 | 3 | 3 | 2 | 3 | 3 | 2 |
| | 2 | 9 | 2 | 0 | 0 | 8 | 0 | 0 | 0 | 9 | 9 | 0 | 9 | 0 | 8 | 6 | 8 | 0 | 0 | 9 | 8 | 0 | 7 |
| 300 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 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | | | | | | | | | | X | | | | | | | | | | | | |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 1 | 1 |
| 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 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | X | | X | X | X | X | | X | X | X | | X | X | | X | X | X | X | X | X | X | X |
| Fatty Change, Focal | | X | | | | X | X | X | | X | X | | X | X | | X | X | | X | | | X | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 2 | 1 |
| Mixed Cell Focus | X | X | | | | X | | | | X | | | | | | | X | X | | X | X | | |
| Necrosis | | | | | | | | | | | | | | 1 | 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
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 1) Minimal 3) Moderate
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TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
300 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 0
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6 | 0
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7 | 0
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8 | 0
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9 | 0
7
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7
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1 | 0
7
3
2 | 0
7
3
3 | 0
7
3
4 | 0
7
3
5 | 0
7
3
6 |
| Bile Duct, Hyperplasia | | | | 1 | 1 | 1 | 1 | 1 | 3 | 1 | | | | 1 | 1 | | 1 | | 1 | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Fatty Change | | | | | | | | | | 1 | | 1 | | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | 3 | 2 | | | 2 | | 2 | 2 | | 3 | 3 | | 3 | 3 | | | | 2 | 1 | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Atrophy | | | | | 1 | | | | | 2 | 1 | 1 | | | | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 |
| | | 8 | 2 | 5 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 1 | 2 | 5 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 7 | 7 | 2 | 7 | 4 | |
| 300 mg/kg | ANIMAL ID | 2 | 9 | 2 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 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 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | | | | |

females
(cont...)

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | | | | | | 1 | | | | | | | 1 | 1 | | | | | | | | | | | 1 | | | | |
| Hyperplasia, Focal | | 1 | | | | | | | | | | 1 | 1 | | | | | | | | | | | 2 | | | 1 | | |
| Hypertrophy, Focal | | | 2 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Hypertrophy, Diffuse | | | | | | 1 | | | | | | 1 | | | | | | | | | | | | | | | 1 | | |
| Vacuolization Cytoplasmic, Focal | | 1 | 1 | | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | | | | | 1 | | | | | | |
| Vacuolization Cytoplasmic, Diffuse | | | | | | | | | 1 | | | | | | 1 | | 2 | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | 1 | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | M | + | M | + | + | + | + | + | + | + | + | M | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | 2 | 2 | | | 1 | 2 | | | 2 | 1 | | | | | 2 | | 2 | | | 2 | 2 | 2 | 2 | 1 | 1 | 1 | | | |
| Pars Distalis, Hyperplasia | | 2 | 1 | | | 2 | | | 2 | 3 | | | | | 2 | | | | 2 | 1 | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| C-cell, Hyperplasia | | 1 | | 1 | 1 | | 1 | | 1 | 1 | 2 | 2 | | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Follicular Cell, Hypertrophy | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | | |

GENERAL BODY SYSTEM

NONE

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|---|
| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 4 |
| 300 mg/kg | 8 | 2 | 5 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 1 | 2 | 5 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 7 | |
| | 2 | 9 | 2 | 0 | 0 | 8 | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 0 | 8 | 6 | 8 | 0 | 0 | 9 | 8 | 0 | 0 | 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 | |
| | 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 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 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | 1 | | | | | | | | | 1 | | | | | | | | 1 | | | |
| Inflammation, Chronic | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 1 | | 1 | 1 | 1 | 1 | | 1 | 2 |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus Decidual Reaction | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Endometrium, Hyperplasia, Cystic | | | | | 2 | | | | | | | | | | 2 | | | | | | | 1 | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Necrosis | 2 | | | | | | | | | | | | 2 | | 3 | | | | | 1 | | | 3 | |
| Lymph Node Mediastinal, 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Histiocytic | 1 | | | | | | | | | | | | 1 | | | | | | | | | | 1 | 4 |

* .. 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

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Necrosis
Lymphoid Follicle, Atrophy | | | | | 2 | | | | | 1 | | 1 | | 2 | | 2 | | | | | | | | | | 3 |
| Thymus
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Duct, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | 1 | | | | | 3 | | | 1 | | | | | | | 2 | 1 | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | 1 | | | | | | | | | | | | 1 | | | | | | 1 |
| Thrombosis | | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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. 99031 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ginkgo biloba extract

CAS Number: 90045-36-6

Date Report Requested: 01/17/2011

Time Report Requested: 12:22:19

First Dose M/F: 03/23/05 / 03/24/05

Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | |
|---|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|------------------|------------------|------------------|------------------|------------------|---|
| FISCHER 344 RATS FEMALE | | 0
5
8
2 | 0
7
2
9 | 0
6
5
2 | 0
7
3
0 | 0
7
3
0 | 0
7
2
8 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
2
1 | 0
7
2
5 | 0
6
2
8 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
2
8 | | 0
7
3
0 | 0
7
3
0 | 0
7
2
8 | 0
7
2
7 | 0
4
4
7 | |
| 300 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 |
| | | 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 |
| | | 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 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Foreign Body | | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | 2 | 1 | 1 | 2 | 1 | 1 | | | | 1 | 2 | 2 | 3 | | | 3 | 1 | 2 | 2 | | | | | 1 | |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | | | 1 | 1 | 1 | 1 | 2 | 1 | 2 | | | | | 1 | 2 | | | | 2 | | 2 | 2 | | | | | | |
| Nerve, Olfactory Epithelium, Atrophy | | | 2 | | 1 | 1 | 2 | 1 | 2 | 3 | 1 | 1 | 2 | 2 | | | | | 2 | 2 | 2 | 2 | 1 | | | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | | 1 | | 2 | 2 | 2 | | | | | | 1 | 1 | | 1 | | | | | | | 1 | | | | | |
| Olfactory Epithelium, Atrophy | | | 2 | | 1 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 2 | 2 | | | | | 2 | 2 | 2 | 2 | 1 | | | | | |
| Olfactory Epithelium, Pigmentation | | | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | | 2 | 1 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 1 |
| Olfactory Epithelium, Regeneration | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Respiratory Metaplasia | | | 2 | | 2 | 2 | 2 | 3 | 2 | 3 | | 2 | 2 | 2 | | | | 2 | 2 | 2 | 3 | 2 | | | 1 | 2 | | |
| Respiratory Epithelium, Hyperplasia | | | | 1 | 2 | 2 | 2 | 2 | 2 | | | | 2 | 2 | 2 | | 1 | 2 | | 2 | 3 | | | | | | 1 | |
| Transitional Epithelium, Hyperplasia | | | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | | 1 | 2 | | 3 | 2 | 1 | 1 | | | | | 2 | |
| Trachea Inflammation, Chronic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | 2 | | | | | | 2 | | | | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retrolubar, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Harderian Gland Inflammation, Chronic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | 1 | | | | | 1 | 1 | | | 1 | | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---------------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0582 | 0729 | 0622 | 0730 | 0733 | 0732 | 0733 | 0733 | 0732 | 0733 | 0732 | 0733 | 0732 | 0733 | 0732 | 0733 | 0732 | 0733 | 0732 | 0733 | 0732 | 0733 | 0732 | 0733 | | |
| 300 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 | 0030 | 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 | 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 | 0030 | |
| | 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 | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 4 | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Hyperplasia | | 1 | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
300 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 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum
Inflammation, Chronic | + | + | + | + | + | | | 2 | | | | | | | | | | | | | | | | 50
2 2.0 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 1.0 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | | 2 | | 1 | | | | | 50
3 1.3 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | 2 | | 1 | | | | | | | | | | | | | | | | | | | | 4 1.3 |
| Basophilic Focus | X | X | | X | X | X | X | | | X | X | X | X | X | X | X | X | X | X | X | X | X | 44 | |
| Clear Cell Focus | | | | X | | X | | | | X | | X | X | | | | X | | X | | | | 17 | |
| Degeneration, Cystic | | | | | 1 | | | | | | 1 | | | | | | | | | | | | 2 1.0 | |
| Eosinophilic Focus | X | X | | X | X | X | X | | | X | | X | X | X | X | X | X | X | X | | X | X | X | 38 |
| Fatty Change, Focal | X | | | X | X | X | X | | | X | X | X | X | X | X | X | X | | X | | X | X | X | 30 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 41 1.1 |
| Mixed Cell Focus | | | | | X | X | X | | | X | X | X | | | X | | | X | X | | | | | 17 |
| Necrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | 3 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
 2) Mild 4) Marked

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
300 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0644 | 0721 | 0770 | 0655 | 0732 | 0778 | 0778 | 0669 | 0570 | 0770 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0575 | 0776 | 0777 | 0777 | | | 0777 | 0777 | 0777 |
| ANIMAL ID | 00026 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 | 00051 | 00052 | 00053 | 00054 | 00055 | 00056 | 00057 | 00058 | 00059 | 00060 |
| Bile Duct, Hyperplasia | 1 | | | | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 3 | 1 | | 1 | | |
| Hepatocyte, Fatty Change | 1 | | 3 | | | | | 2 | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | | | 4 | 3 | 1 | | 2 | | | | 1 | | | 2 | 2 | 2 | 2 | 2 | | 3 | 1 | | 2 | 2 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| | 0 6 4 4 | 0 7 2 1 | 0 7 0 0 | 0 6 5 5 | 0 7 3 0 | 0 7 2 8 | 0 7 2 8 | 0 6 0 9 | 0 5 8 0 | 0 7 3 0 | 0 7 2 8 | 0 7 2 8 | 0 7 2 9 | 0 7 2 9 | 0 5 3 3 | 0 7 2 9 | 0 6 6 4 | 0 7 2 9 | 0 7 2 9 | 0 7 2 8 | 0 7 2 9 | 0 7 2 8 | 0 7 2 3 | 0 7 3 0 | |
| 300 mg/kg | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 3 2 6 | 0 3 2 7 | 0 3 2 8 | 0 0 0 9 | 0 0 3 0 | 0 0 3 1 | 0 0 3 2 | 0 0 3 3 | 0 0 3 4 | 0 0 3 5 | 0 0 3 6 | 0 0 3 7 | 0 0 3 8 | 0 0 3 9 | 0 0 3 0 | 0 0 3 1 | 0 0 3 2 | 0 0 3 3 | 0 0 3 4 | 0 0 3 5 | 0 0 3 6 | 0 0 3 7 | 0 0 3 8 | 0 0 3 9 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | 7 1.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 13 1.5 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Hypertrophy, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | 7 1.0 |
| Vacuolization Cytoplasmic, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 22 1.1 |
| Vacuolization Cytoplasmic, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | 6 1.5 |
| Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.2 |
| Islets, Pancreatic | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | 43 | |
| Pituitary Gland | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 29 1.7 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 18 1.8 |
| Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 36 1.3 |
| Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 45 1.1 |

GENERAL BODY SYSTEM

NONE

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * 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 | |
| 300 mg/kg | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 50 |
| 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 | 50 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 50 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 50 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 50 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|-----|
| Clitoral Gland Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 | | |
| Cyst | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 | 1.0 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 | | |
| Inflammation, Chronic | | | 1 | | 1 | 1 | | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 2 | 2 | | 2 | 2 | 1 | 1 | 50 | 40 | 1.4 |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.0 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Decidual Reaction | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Endometrium, Hyperplasia, Cystic | 1 | | | | | | | | | | 1 | 1 | | | | | | 1 | 2 | 2 | 1 | | 2 | | 50 | 11 | 1.5 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 2.4 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | M | 0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | 2 | 1 | | 2 | | | 1 | | | | 1 | | | | | 1 | 3 | | 2 | 1 | | | | 50 | 13 | 1.4 | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS | | | |
|----------------------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|------|------|--------|
| | 0644 | 0721 | 0770 | 0655 | 0732 | 0778 | 0778 | 0669 | 0550 | 0770 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | 0777 | 0777 | |
| 300 mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 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 |
| Necrosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymphoid Follicle, Atrophy | | | 4 | 2 | | | | | 2 | | | | | | | | | | | | | | | | 9 2.1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 49 | |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | | 4 | 4 | 46 4.0 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Duct, Cyst | 2 | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | 8 1.5 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skeletal Muscle | | | + | | | | | | | | | | | | | | | | | | | | | | 1 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Inflammation, Chronic | | | | | | | | 2 | | 1 | 1 | 1 | 1 | | 2 | | | 2 | 1 | | | | | | 11 1.3 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | | | 3 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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
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TDMS No. 99031 - 03
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
300 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|--------|---|---|--------|--------|
| | 0644 | 0721 | 0770 | 0655 | 0732 | 0778 | 0669 | 0570 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | | | | | |
| ANIMAL ID | 00026 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Inflammation, Chronic Active | 1 | | 2 | | | 2 | | | | | 1 | 1 | | 1 | 1 | | | 1 | 1 | | 1 | 1 | 26 1.5 | | | | |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | | | | | | | | | | | 2 | 2 | 2 | 2 | | | 1 | | | 1 | | 18 1.6 | | | | | |
| Nerve, Olfactory Epithelium, Atrophy | | | | | | 2 | | | | 1 | 1 | 1 | 2 | | | | | | 1 | | | 22 1.6 | | | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | | | 1 | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 25 1.2 | | | | |
| Olfactory Epithelium, Atrophy | | | | | 1 | 2 | | | | 1 | 1 | 1 | 2 | | | | 1 | | 1 | | | 1 | 25 1.6 | | | | |
| Olfactory Epithelium, Pigmentation | | 2 | | 1 | 3 | 2 | 2 | | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 43 2.0 | |
| Olfactory Epithelium, Regeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Olfactory Epithelium, Respiratory Metaplasia | | 1 | | | | 2 | 2 | | 2 | 2 | 2 | 2 | 3 | 2 | 2 | | | 1 | 2 | | | 3 | 1 | | | 32 2.0 | |
| Respiratory Epithelium, Hyperplasia | | | | | | 2 | | | | | 1 | 1 | | | | | | | | | 2 | 1 | | | | 19 1.7 | |
| Transitional Epithelium, Hyperplasia | | | | | 2 | 3 | | | | | 3 | 2 | 2 | 2 | 2 | | | 2 | | | 2 | 1 | 2 | 1 | 1 | | 32 1.8 |
| Trachea Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 1.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract Degeneration | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | 3 2.3 |
| Retina, Atrophy | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Retrobulbar, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Harderian Gland Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Harderian Gland Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 1 | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | 8 1.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
| FISCHER 344 RATS FEMALE | 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 | |
| | | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | |
| 300 mg/kg | | 4 | 2 | 0 | 5 | 3 | 2 | 2 | 0 | 8 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 6 | 2 | 2 | 2 | 2 | 2 | 3 | | |
| | | 4 | 1 | 0 | 5 | 0 | 8 | 8 | 9 | 0 | 0 | 8 | 8 | 8 | 9 | 9 | 0 | 3 | 9 | 4 | 9 | 9 | 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 | 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 | | |
| | | 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 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Hydronephrosis | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 | |
| Infarct | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | 3 | | | | | | | | | | | 1 3.0 | |
| Nephropathy | | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | | | 1 | 1 | 1 | 1 | | 1 | 1 | 43 1.2 | |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 2.0 | |
| Renal Tubule, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 3 2.0 | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|-------|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 0637 | 0773 | 0773 | 0772 | 0672 | 0772 | 0673 | 0773 | 0662 | 0766 | 0657 | 0777 | 0577 | 0722 | 0523 | 0728 | 0508 | 0553 | 0773 | 0772 | 0773 | 0773 | females (cont...) | |
| | ANIMAL ID | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | | 00373 |
| 1000 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 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | 1 | | | | | | | | | | | | | | | | | | 1 | |
| Basophilic Focus | 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 |
| Eosinophilic Focus | X | X | | | X | X | X | | X | | | X | | | | | X | | | X | X | X | |
| Fatty Change, Focal | | | X | | X | X | X | X | | | | X | | | | | X | | | X | X | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | X | | | | | | | | | | | |
| Inflammation, Chronic | 1 | 1 | | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | X | | | | | X | X | | | | | X | | | | | | | X | | X | | |
| Necrosis | | | | | | | | | 3 | | 3 | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | 1 | 1 | 2 | 2 | 1 | 1 | 1 | | | 1 | 1 | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 |
| Hepatocyte, Fatty Change | | | | | 1 | | | | 1 | 2 | 2 | | | | | | | | | | | 1 | |
| Hepatocyte, Hypertrophy | 2 | 2 | | | 2 | 1 | | 2 | | 3 | | 2 | 1 | | | 2 | 2 | 3 | | 3 | 2 | 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. 99031 - 03
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Ginkgo biloba extract
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 Lab: BAT

| FISCHER 344 RATS FEMALE
1000 mg/kg | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | females
(cont...) |
|---------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 5 | 7 | 7 | 5 | 7 | 2 | 2 | 7 | 5 | 0 | 5 | 7 | 7 | 7 | 7 | 7 | 0 | | |
| | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 1 | 2 | 2 | 3 | 6 | 2 | 3 | 2 | 8 | 4 | 3 | 3 | 2 | 2 | 2 | 3 | 0 | | | |
| | 7 | 0 | 0 | 9 | 2 | 9 | 9 | 9 | 9 | 6 | 8 | 1 | 9 | 0 | 6 | 9 | 2 | 8 | 7 | 7 | 3 | 0 | 8 | 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 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 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 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|--|--|---|--|--|--|---|--|---|--|--|--|---|---|--|--|---|---|--|--|--|--|---|--|--|--|--|
| Mesentery Fat, Necrosis | | | | + | | | | + | | + | | | | + | + | | | + | + | | | | | + | | | | |
| | | | | 2 | | | | 3 | | 2 | | | | 3 | 2 | | | 3 | 4 | | | | | 3 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acinus, Atrophy | | 1 | 1 | | | 1 | 1 | | | 1 | | 1 | | | | 1 | 1 | | | | | 1 | 1 | | | | |
| Duct, Cyst | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|
| Stomach, Forestomach Inflammation, Chronic Ulcer | + | + | + | + | + | + | + | + | + | + | 4 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 3 | | | | | | 3 | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular Mineralization Glands, Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | 1 | 1 | 2 | 1 | 2 | | 1 | 1 | | | | 1 | 1 | | 2 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | |

CARDIOVASCULAR SYSTEM

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrium, Thrombosis | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | |
| Myocardium, Mineralization | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex Degeneration, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | 1 | | 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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|------|
| | 0637 | 0733 | 0770 | 0777 | 0672 | 0777 | 0777 | 0676 | 0776 | 0776 | 0676 | 0776 | 0776 | 0577 | 0777 | 0777 | 0577 | 0777 | 0272 | 0373 | 0278 | 0777 | 0575 | 0070 | | | 0575 | 0777 | 0777 | 0777 | 0777 | 0777 |
| 1000 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 | 00 | 00 | 00 | 00 | 00 |
| | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | |
| | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | |
| | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | |

Hyperplasia, Focal
 Hyperplasia, Diffuse
 Hypertrophy, Focal
 Hypertrophy, Diffuse
 Vacuolization Cytoplasmic, Focal
 Vacuolization Cytoplasmic, Diffuse

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

Adrenal Medulla
 Hyperplasia

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

Islets, Pancreatic

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

Parathyroid Gland

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | M | + | M | M | M | + | M | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Pituitary Gland
 Cyst
 Pars Distalis, Hyperplasia

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

Thyroid Gland
 C-cell, Hyperplasia
 Follicle, Hyperplasia
 Follicular Cell, Hypertrophy

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
 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

2) Mild 4) Marked

| FISCHER 344 RATS FEMALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|
| | 0637 | 0733 | 0733 | 0733 | 0622 | 0672 | 0722 | 0672 | 0663 | 0763 | 0666 | 0576 | 0776 | 0575 | 0775 | 0223 | 0223 | 0223 | 0223 | 0223 | 0223 | 0223 | 0223 | 0223 | | 0223 |
| | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 | 00374 | | 00375 |
| Inflammation, Chronic | 1 | 2 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 2 | 2 | 2 | 1 | | 2 | 1 | | 1 | | 2 | 1 | | | |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Uterus Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Suppurative | | 1 | | 2 | | | | | | | | | | | | | | | | | | | 2 | | | |
| Endometrium, Hyperplasia, Cystic | | | | | 1 | | | | | | | | | 2 | | | | | | | | | 2 | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymph Node Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, 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 Pigmentation, Hemosiderin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Histiocytic | | | | | 1 | | | | | | 1 | | | 3 | | | | | | | | 1 | | 1 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | 3 | | | | | | | | | | 4 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| FISCHER 344 RATS FEMALE
1000 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 | | |
| | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 5 | 7 | 7 | 5 | 7 | 2 | 7 | 5 | 0 | 5 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 1 | 2 | 2 | 3 | 6 | 2 | 3 | 2 | 8 | 4 | 3 | 3 | 2 | 2 | 3 |
| | 7 | 0 | 0 | 9 | 2 | 9 | 9 | 9 | 9 | 6 | 8 | 1 | 9 | 0 | 6 | 9 | 2 | 8 | 7 | 7 | 3 | 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 | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | X | X | | | | |
| Inflammation, Chronic Active | | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | | | | 2 | 2 | 2 | 1 | 1 | 2 | | | 2 | 2 | 2 | 2 | |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | | 2 | 2 | 2 | | 2 | 2 | | 2 | | | | 2 | 2 | 1 | 1 | | 1 | | | 1 | 1 | 2 | 2 | |
| Nerve, Olfactory Epithelium, Atrophy | | 3 | 3 | 2 | | 3 | 3 | | 2 | | | | 1 | 2 | 2 | 2 | | | | | 2 | 2 | 2 | 3 | |
| Olfactory Epithelium, Atrophy | 1 | 3 | 3 | 2 | 1 | 3 | 3 | | 2 | | | | 1 | 2 | 2 | 2 | | 1 | | | 2 | 2 | 2 | 3 | |
| Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Olfactory Epithelium, Pigmentation | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | | | | 2 | 2 | 2 | 2 | 1 | 2 | 1 | | | 3 | 2 | 2 | 2 |
| Olfactory Epithelium, Regeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Respiratory Metaplasia | | 3 | 3 | 2 | 3 | 3 | 3 | | 2 | | | | 2 | 3 | 3 | 2 | | 2 | 1 | | | 3 | 3 | 3 | 3 |
| Respiratory Epithelium, Hyperplasia | | 2 | 2 | 2 | | 3 | 2 | | 2 | | | | 2 | 3 | 2 | 2 | | 2 | | | | 3 | 3 | 3 | 3 |
| Transitional Epithelium, Hyperplasia | | 3 | 3 | 2 | | 3 | 3 | | 3 | | | | 1 | 2 | 2 | 1 | 2 | | 2 | | | 4 | 3 | 3 | 3 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | 2 | | 2 | | | | | | | | | | | | | |
| Retinal Detachment | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Retina, Hemorrhage | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | 1 | | | 2 | | | | | | | | | 1 | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | | |
|------------------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|---|------|------|
| | 0637 | 0733 | 0733 | 0732 | 0622 | 0722 | 0722 | 0633 | 0722 | 0633 | 0633 | 0522 | 0622 | 0633 | 0622 | 0633 | 0633 | 0633 | 0633 | 0633 | 0633 | 0633 | 0633 | 0633 | 0633 | | | 0633 | 0633 |
| 1000 mg/kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Infarct | | | | | | | | | 1 | | 2 | | | | | | | | 2 | | | | | | | | | | 2 |
| Nephropathy | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 4 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | |
| Renal Tubule, Mineralization | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

females
(cont...)

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

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

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|
| | 078 | 079 | 078 | 073 | 072 | 075 | 072 | 071 | 070 | 077 | 073 | 072 | 073 | 074 | 073 | 077 | 072 | 076 | 072 | 073 | | 077 | 077 |
| 1000 mg/kg | 007 | 007 | 007 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 50 |
| ANIMAL ID | 037 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 033 | 4 |
| | 67 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parasite Metazoan | 1 | | | | | | | | | 1 | 1 | 1 | 2 | | | | | | | | | | | 6 1.2 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | 1 | | | | | 1 | | | | | | 4 1.0 | |
| 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 | 11 | |
| Eosinophilic Focus | X | X | | X | X | X | X | | | X | X | X | X | X | | X | X | X | | X | X | X | X | 30 | |
| Fatty Change, Focal | X | X | | X | | X | X | | | X | | | X | X | X | X | X | | | X | X | X | | 25 | |
| Hepatodiaphragmatic Nodule | | | | X | | | | | X | | | | | | | | | | | | | | | 3 | |
| Inflammation, Chronic | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | | 1 | 1 | 42 1.1 | |
| Mixed Cell Focus | | | X | | | | | | | X | | | | | | X | | | | | | X | | 10 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 3 | | 3 3.0 | |
| Bile Duct, Hyperplasia | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | 33 1.1 | |
| Hepatocyte, Fatty Change | 1 | | | | | | | | | | | | | | | | 1 | 2 | | 1 | | | | 9 1.3 | |
| Hepatocyte, Hypertrophy | | 3 | 3 | 3 | 3 | | 3 | 2 | | 4 | 3 | 3 | 3 | 2 | 3 | 2 | | | 2 | | 4 | 3 | 2 | 2 | 33 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|
| | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | | 078 |
| ANIMAL ID | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|----|-------|-----|
| Mesentery Fat, Necrosis | | | | | + | | | + | | | | | | | | | | | | | | + | 11 | | | | |
| | | | | | 3 | | | 3 | | | | | | | | | | | | | | 2 | 11 | 2.7 | | | |
| Pancreas Hemorrhage | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | A | + | + | + | + | + | 48 | | |
| Acinus, Atrophy | 1 | | | | 1 | 1 | | | | | 1 | | | | 2 | | 2 | | 1 | | | 1 | 1 | 1 | 20 | 1.1 | |
| Duct, Cyst | | | | | | | | | | 1 | | | | | | | | | | | 1 | | | | 4 | 1.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach Inflammation, Chronic Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Stomach, Glandular Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Glands, Ectasia | 1 | 1 | | | 1 | 1 | | | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 2 | 1 | 1 | 1 | 36 | 1.1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | | 1 | | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 48 | 1.5 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 | 2.0 |
| Myocardium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Adrenal Cortex Degeneration, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | 1.6 |

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

TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|-----|
| | 078 | 079 | 078 | 073 | 072 | 075 | 071 | 079 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | | 070 | |
| ANIMAL ID | 00376 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | | |
| Hyperplasia, Focal | | | | 1 | 1 | | 2 | 2 | | | | 1 | | | 1 | | | 1 | | | 2 | 15 | 1.4 |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hypertrophy, Focal | | | | | 2 | | | | | | 1 | | | 2 | | | | | | | 2 | 5 | 1.8 |
| Hypertrophy, Diffuse | | | | | | | | | | 2 | 1 | | 1 | | | | | 1 | | 2 | | 9 | 1.3 |
| Vacuolization Cytoplasmic, Focal | | | | 1 | | | 1 | 2 | | | | 1 | 1 | | 1 | 1 | | | | 1 | 2 | 21 | 1.1 |
| Vacuolization Cytoplasmic, Diffuse | | | | | | | | | | 2 | | | | | | | | | 2 | | | 4 | 1.5 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | 2 | 1.5 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | M | + | + | M | + | + | M | + | + | M | M | M | M | + | + | + | + | + | + | M | + | 35 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | 2 | | | | 1 | | 2 | | | 1 | 2 | | | 1 | 2 | | | | 1 | 2 | 1 | 31 | 1.5 |
| Pars Distalis, Hyperplasia | | 2 | | | 2 | | 1 | 2 | 1 | | | | 2 | 2 | | | 1 | 2 | 2 | | 2 | 23 | 1.9 |
| Thyroid Gland | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| C-cell, Hyperplasia | 2 | 1 | 1 | 1 | 1 | | | | | | | 2 | | | 2 | | 1 | 2 | | | 1 | 21 | 1.3 |
| Follicle, Hyperplasia | | | | | | | | | | | | | | | | 2 | | 1 | | | 2 | 5 | 1.6 |
| Follicular Cell, Hypertrophy | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 48 | 2.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | 2 | 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
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TDMS No. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-----|-----------|------------|------------|------------|
| | 078 | 079 | 078 | 073 | 072 | 075 | 072 | 077 | 073 | 070 | 073 | 070 | 073 | 074 | 073 | 077 | 077 | 076 | 072 | 072 | | | 077 | 077 | 077 | 073 | | | |
| ANIMAL ID | 00376 | 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 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | | | | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 2 | 1 | 38 | 1.3 | | |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 2.0 | |
| Uterus Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 4 | 2.0 | |
| Inflammation, Suppurative | 2 | | | | | | | | | | 2 | | | | | | | 1 | | | | | | | | 5 | 1.6 | | |
| Endometrium, Hyperplasia, Cystic | | | | | 1 | 1 | | | | 1 | | | | | | | 1 | | | 2 | | | | | | 7 | 1.3 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 12 | 2.5 |
| Lymph Node Ectasia | + | | | | | | | | | + | | | | | + | | | | | | | | | | + | | 4 | 1 | 3.0 |
| Mediastinal, Ectasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | 2 | | | | | | | | | | | 3 | | 3 | 2.3 | | |
| 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 | 0 | | |
| Lymph Node, Mesenteric Pigmentation, Hemosiderin | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 | 2.0 |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 13 | 1.4 |
| Hyperplasia, Histiocytic | | | 2 | | | 1 | 1 | | | | | | | | | 3 | 1 | 1 | | | 1 | | | | | 2 | 4.0 | | |
| Lymphoid Follicle, Atrophy | | | 4 | | | | | | | | 4 | | | | | | | | | | | | 2 | | | 5 | 2.6 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 48 | | |

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TDMS No. 99031 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
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 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---|-----|-----|
| | 078 | 079 | 078 | 073 | 072 | 075 | 072 | 071 | 071 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | 070 | | | 070 | |
| ANIMAL ID | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | | | |
| Atrophy | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 47 | 3.8 |
| Ectopic Thyroid | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Duct, Cyst | | 1 | | 1 | | | | | | | | 1 | | | | | | | | | | 1 | 6 | 1.3 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperostosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Congestion | | | | | | 1 | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hippocampus, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | 1 | | | | | | | | | | 2 | | | | | | | 6 | 1.5 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Metaplasia, Osseous | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | 1 | | | 2 | | | | | | | 2 | 1.5 |

* .. 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. 99031 - 03
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 Ginkgo biloba extract
 CAS Number: 90045-36-6

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| FISCHER 344 RATS FEMALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-----|--------|
| | 078 | 078 | 078 | 073 | 072 | 065 | 072 | 057 | 077 | 077 | 077 | 077 | 047 | 077 | 077 | 077 | 077 | 067 | 022 | 072 | | 077 | 077 | 077 | |
| ANIMAL ID | 00376 | 00377 | 00378 | 00300 | 00301 | 00302 | 00303 | 00304 | 00305 | 00306 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316 | 00317 | 00318 | 00319 | | |
| Nose | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | 46 |
| Foreign Body | X | | | | | | | | | | | | | | | | X | X | | | | X | X | | 7 |
| Inflammation, Chronic Active | 3 | 2 | 2 | 1 | 2 | | 1 | | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 3 | 2 | | | 2 | 2 | 2 | 2 | 38 1.9 |
| Goblet Cell, Respiratory Epithelium, Hyperplasia | 2 | 2 | 2 | 2 | 2 | | 2 | | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | 1 | 1 | 1 | 2 | 35 1.8 |
| Nerve, Olfactory Epithelium, Atrophy | 3 | 3 | 2 | 2 | 2 | | 2 | | 3 | 2 | | 1 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | | 2 | | 2 | 2 | 33 2.2 |
| Olfactory Epithelium, Atrophy | 3 | 3 | 2 | 2 | 2 | | 2 | | 3 | 2 | | 1 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | | 2 | 1 | 2 | 2 | 37 2.1 |
| Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Olfactory Epithelium, Pigmentation | 2 | 2 | 3 | 1 | 1 | | 2 | | 2 | 2 | | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | | 2 | 1 | 2 | 2 | 40 1.9 |
| Olfactory Epithelium, Regeneration | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | 2 1.0 |
| Olfactory Epithelium, Respiratory Metaplasia | 4 | 4 | 1 | 2 | 2 | | 2 | | 3 | 2 | | 2 | 1 | 3 | 3 | 2 | 3 | 3 | 3 | | 3 | 1 | 2 | 3 | 37 2.5 |
| Respiratory Epithelium, Hyperplasia | 3 | 3 | 2 | 2 | 2 | | 2 | | 2 | 2 | | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | | 2 | 2 | 2 | 2 | 34 2.3 |
| Transitional Epithelium, Hyperplasia | 3 | 3 | 3 | 2 | 4 | | 3 | | 3 | 2 | | 2 | 1 | 4 | 3 | 4 | 4 | 3 | 4 | | 3 | 3 | 3 | 3 | 36 2.8 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Retinal Detachment | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Retina, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Inflammation, Chronic | | | | | 1 | | | | | | 1 | | 1 | | | | 1 | | | | | | | | 7 1.1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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. 99031 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
 CAS Number: 90045-36-6

Date Report Requested: 01/17/2011
 Time Report Requested: 12:22:19
 First Dose M/F: 03/23/05 / 03/24/05
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|--------|
| | 078 | 079 | 078 | 073 | 072 | 075 | 072 | 077 | 073 | 073 | 072 | 073 | 074 | 073 | 070 | 077 | 077 | 077 | 076 | 072 | 073 | 077 | 077 | 077 | | |
| 1000 mg/kg | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | | | |
| ANIMAL ID | 376 | 377 | 378 | 373 | 372 | 375 | 372 | 377 | 373 | 373 | 372 | 373 | 374 | 373 | 370 | 377 | 377 | 377 | 376 | 372 | 373 | 377 | 377 | 377 | | |
| Infarct | | | | | | 3 | | | | 2 | | | | | | | | | | | | | | | 6 2.0 | |
| Nephropathy | 2 | 1 | 1 | 2 | 1 | | 1 | | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | | 2 | 1 | 1 | 1 | 42 1.2 |
| Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

*** END OF REPORT ***

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