

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	0769	0772	0778	0778	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		
ANIMAL ID	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum Thrombosis Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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		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	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
Mixed Cell Focus	X		X	X	X	X			X					X						X	X		

* .. 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

1-4 .. Lesion qualified as:

I .. Insufficient tissue

BLANK .. Not examined microscopically

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2) Mild 4) Marked

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DAY ON TEST	FISCHER 344 RATS MALE																				ANIMAL ID	males (cont...)			
	0729	0699	0728	0778	0778	0777	0777	0777	0777	0777	0777	0777	0777	0575	0777	0775	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
	12	23	34	45	56	67	78	89	00	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Necrosis																									
Bile Duct, Hyperplasia	2	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																							
Ulcer														3											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization																									
Ulcer																									
Epithelium, Hyperplasia						1																			
Glands, Ectasia		1			1		1			1		1		1			1		1				1	1	1

CARDIOVASCULAR SYSTEM

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

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FISCHER 344 RATS MALE 0 mg/kg	DAY ON TEST	0729	0699	0728	0778	0777	0777	0777	0777	0777	0777	0777	0577	0777	0757	0775	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	ANIMAL ID	0001 0002 0003 0004 0005 0006 0007 0008 0009 0010 0011 0012 0013 0014 0015 0016 0017 0018 0019 0020 0021 0022 0023 0024 0025	males (cont...)

Pulmonary Vein, Mineralization

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	2	2	2	2	2	3	2	2	1	2	2	2	1	2	1	2	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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FISCHER 344 RATS MALE 0 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	6	7	7	7	7	7	7	7	7	7	5	7	7	5	7	7	7	7	7	7	7	7	7		
	2	9	9	2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2	2	2	0	
	9	9	8	8	8	7	7	9	7	8	8	6	7	8	5	8	7	7	8	8	8	8	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	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	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 3 1 1 2 1 1

Lymph Node
 Mediastinal, Inflammation, Suppurative

Lymph Node, Mandibular M

Lymph Node, Mesenteric
 Infiltration Cellular, Histiocyte +

Spleen
 Fibrosis +
 Hematopoietic Cell Proliferation 1 1
 Lymphoid Follicle, Atrophy

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 3 3 3

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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		0	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	DAY ON TEST	7	6	7	7	7	7	7	7	7	7	7	5	7	7	5	7	7	7	7	7	7	7	7	7	7
		2	9	2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	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	7	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males (cont...)

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

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

Nose +
 Foreign Body X X X X X
 Inflammation, Chronic Active 2 1 1 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1
 Respiratory Metaplasia 2
 Synechia, Focal
 Glands, Hyperplasia
 Goblet Cell, Respiratory Epithelium, Hyperplasia 2 1 2 2 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
 Respiratory Epithelium, Hyperplasia 1 2 1 1 1
 Respiratory Epithelium, Inflammation, Chronic 1
 Transitional Epithelium, Hyperplasia

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

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																									1

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cataract																									3
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Zymbal's Gland																									

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hydronephrosis																									
Nephropathy	1	2	2	1	2	2	2	2	2	1	1	2	3	2	2	2	1	2	3	1	2	2	2	2	
Papilla, Necrosis																									
Renal Tubule, Cyst	2																								
Renal Tubule, Hyperplasia														1											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																									1
Necrosis																									

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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	0662	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																									1 4.0
Ulcer																									1 4.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan																									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						X	30	
Clear Cell Focus	X	X	X	X				X	X		X	X		X	X		X				X		X	31	
Congestion																									1 3.0
Degeneration, Cystic																									4 1.0
Eosinophilic Focus				X											X		X			X		X		14	
Fatty Change, Focal				X																				3	
Hepatodiaphragmatic Nodule																								2	
Inflammation, Chronic	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		X			19	

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	0728	0533	0728	0728	0728	0728	0608	0728	0728	0728	0728	0607	0728	0728	0728	0728	0728	0606	0606	0728		0728	0728	0606
ANIMAL ID	00026	00007	00008	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
Necrosis																								
Bile Duct, Hyperplasia		1	1							1	1		1	1	1	1	1		1	2		1	1	
Hepatocyte, Fatty Change		1							1	1		1	1	1		1	1	2		2	3	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	3	2
Epithelium, Hyperplasia																								1
Glands, Ectasia		1				1			1	1	1			1										17
CARDIOVASCULAR SYSTEM																								
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Aorta, Mineralization																								3

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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 0 mg/kg	DAY ON TEST																				* TOTALS						
	0728	0533	0728	0727	0727	0727	0628	0728	0727	0727	0727	0628	0727	0727	0727	0727	0727	0628	0628	0727		0727	0727	0628	0727	0628	0727
ANIMAL ID	00026	00007	00008	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	
Pulmonary Vein, Mineralization							1																			1	1.0
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	2	1	50	1.9
Atrium, Thrombosis					2	3																				3	2.7
Myocardium, Mineralization																			3							1	3.0
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Degeneration, Cystic																										2	2.0
Hyperplasia, Focal													1		1					1	2					12	1.5
Hypertrophy, Focal			2				2							1											1	7	1.9
Hypertrophy, Diffuse																		2						2		3	1.7
Vacuolization Cytoplasmic, Focal			1					1					1	1				1		1	1			1		17	1.1
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	1.2
Pars Distalis, Hyperplasia			1	1		2					1				2		1		2						1	19	1.5
Pars Intermedia, Hyperplasia																										1	2.0

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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

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	33	33	33	33	33	33	33	33	
	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
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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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									
	07 28	05 33	07 28	07 27	07 22	07 20	06 08	07 22	07 22	07 22	07 22	07 24	06 22	07 22	07 20	07 22	07 22	06 24	06 09	07 22	07 22			07 22	06 22	07 22	06 22	07 22			
ANIMAL ID	00026	00007	00008	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00005	00000			
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	M	M	0			
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	2.0	
Spleen Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	1.0	
Hematopoietic Cell Proliferation																													3	1.7	
Lymphoid Follicle, Atrophy															1														4	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	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			

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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

DAY ON TEST	FISCHER 344 RATS MALE																				* TOTALS		
	0728	0733	0772	0772	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777		0777	0777
0 mg/kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	00026	00007	00008	00009	00010	00011	00012	00013	00014	00015	00016	00017	00018	00019	00020	00021	00022	00023	00024	00025	00026	00027	0

NERVOUS SYSTEM

Brain + 50

RESPIRATORY SYSTEM

Lung + 50
 Inflammation, Chronic 1 1 1 1 19 1.1
 Metaplasia, Osseous 1 1.0
 Alveolar Epithelium, Hyperplasia 1 2 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 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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 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 14 1.6
 Respiratory Epithelium, Inflammation, Chronic 1 1.0
 Transitional Epithelium, Hyperplasia 1 2 2 1.5

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 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	5		
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8		
																					50				
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 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	1	49 1.7
Papilla, Necrosis	1																				4 2.0				
Renal Tubule, Cyst																					1 2.0				
Renal Tubule, Hyperplasia																					1 1.0				
Urinary Bladder	+																				50				
Inflammation, Chronic																					3 2.0				
Necrosis																					3 3.0				

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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

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	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		
FISCHER 344 RATS MALE	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	
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	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

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	1	2	1	1	1
Mixed Cell Focus	X	X		X		X	X	X				X	X		X	X		X			X	X	X	
Necrosis														1							2		1	
Bile Duct, Hyperplasia	2	2	3	1	1	2	1	2	1	2	3	2	2	2	2		1	2	1	1		1	2	2
Hepatocyte, Fatty Change	1							2	1					2	1						2			

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 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

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

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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 100 mg/kg	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 2 7	0 7 2 8	0 7 2 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 2 2 8	0 7 2 7		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00051	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00052	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00053	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00054	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00055	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00056	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00057	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00058	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00059	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00060	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00061	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00062	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00063	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00064	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00065	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00066	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00067	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00068	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00069	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00070	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00071	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00072	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00073	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00074	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00075	

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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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	1	3	1		2				1	1		1	1 3 1
Follicle, Hyperplasia				3										1	1		1					
Follicular Cell, Hypertrophy	1	1	1		1		2	2	2	2	1	1		1		1	1		1	1		2 1 2

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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	DAY ON TEST																								ANIMAL ID	males (cont...)
	0729	0728	0778	0643	0729	0667	0767	0777	0777	0777	0777	0777	0777	0777	0777	0678	0777	0777	0479	0779	0579	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	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																									

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 Lab: BAT

FISCHER 344 RATS MALE	DAY ON TEST																				ANIMAL ID	males (cont...)			
	07	07	07	06	07	06	07	07	07	07	07	07	07	07	07	06	07	07	04	07			05	07	07
100 mg/kg	29	28	28	43	29	67	22	22	22	22	22	02	22	22	04	57	22	22	44	22	19	28	28	29	27
	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
	05	05	05	05	05	05	05	05	05	06	06	06	06	06	06	06	06	06	07	07	07	07	07	07	07
	01	02	03	04	05	06	07	08	09	00	01	02	03	04	05	06	07	08	09	00	01	02	03	04	05

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

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FISCHER 344 RATS MALE	DAY ON TEST																							males (cont...)	
	0729	0728	0778	0643	0729	0667	0778	0777	0777	0777	0777	0777	0777	0777	0777	0678	0777	0777	0479	0778	0579	0778	0778		0777
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

Bone Hyperostosis +

NERVOUS SYSTEM

Brain Necrosis +

RESPIRATORY SYSTEM

Lung Inflammation, Chronic 1 2 1 3 2
 Metaplasia, Osseous 1 1 1
 Alveolar Epithelium, Hyperplasia
 Nose Foreign Body X
 Inflammation, Chronic Active 2 1 1 1 2 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1
 Goblet Cell, Respiratory Epithelium, Hyperplasia 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 Nerve, Olfactory Epithelium, Atrophy 2 1 1 1 2 2 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 1 1 2 1 2 2 1 2 2 1 1 1 1 1 1
 Olfactory Epithelium, Atrophy 2 1 1 1 1 1 2 2 2 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 2 2 2 1 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 +

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

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	3	1	2	2	2	1	2	3	2	3	2	4
Papilla, Necrosis																							
Renal Tubule, Cyst										2													
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic																							

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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	* TOTALS
		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		1	6	2	7	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	ANIMAL ID	5	8	7	8	8	4	8	8	7	7	5	8	7	8	7	7	9	2	9	8	0	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		
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9		
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7		

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	49
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan		1	1							1							2							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	37
Clear Cell Focus		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		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	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			2	2		1		18 1.3

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

TDMS No. 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 1 4	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 8	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 9	0 0 0 9 0	0 0 0 9 1	0 0 0 9 2	0 0 0 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	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																											23 1.4
Acinus, Hyperplasia																											7 1.0
Duct, Cyst																											5 1.0
Salivary Glands																											50
Stomach, Forestomach																											50
Inflammation, Chronic																											1 3.0
Stomach, Glandular																											50
Inflammation, Suppurative																											1 2.0
Inflammation, Chronic																											1 2.0
Mineralization																											1 3.0
Glands, Ectasia																											30 1.0
Glands, Hyperplasia																											2 2.0

CARDIOVASCULAR SYSTEM

Blood Vessel																											50
Heart																											50
Cardiomyopathy																											48 2.0

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 Ginkgo biloba extract
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 Lab: BAT

FISCHER 344 RATS MALE	DAY ON TEST																						* TOTALS
	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	
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	50

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	+																						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	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	1	1	1	2	1	1	37 1.2			

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Granuloma Sperm													2											1	2.0
Mineralization				2																				1	2.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia									1															1	1.0
Inflammation, Chronic		1	2	1	1	2	2	1	1	2	2	1	1	2	2	2	2	2	2	1	1	1	1	48	1.6
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia												1	1											3	1.0
Inflammation		1	1		1		2		1		1	2			1		1	4	1	1				27	1.7
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																		2						3	2.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia	1					1						3		2			1		1					15	1.9
Lymph Node																					+			2	
Mediastinal, Hyperplasia, Lymphoid																					2			1	2.0

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 Species/Strain: RATS/F 344/N

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 CAS Number: 90045-36-6

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 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 6 8 7	0 7 2 7	0 6 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 9	0 0 0 9 0	0 0 0 9 1	0 0 0 9 2	0 0 0 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	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	8 1.8		
Hemorrhage																								1	1 2.0		
Necrosis																								2	1 2.0		
Lymphoid Follicle, Atrophy																								4	1 4.0		
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																								4	48 3.9		
Epithelial Cell, Hyperplasia																								4	1 3.0		
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation, Chronic																								1	1 1.0		
Duct, Cyst																								1	19 1.5		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst Epithelial Inclusion																								1	1		
Lymphatic, Subcutaneous Tissue, Cyst																								1	1 3.0		
MUSCULOSKELETAL SYSTEM																											

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	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 8	0 7 2 7	0 6 8 9	0 7 2 2	0 6 6 9	0 7 2 8	0 7 1 0		0 7 2 7			
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 9 0	0 0 0 9 1	0 0 0 9 2	0 0 0 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	
Bone Hyperostosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 2.0
NERVOUS SYSTEM																									
Brain Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 2.0
RESPIRATORY SYSTEM																									
Lung Inflammation, Chronic Metaplasia, Osseous Alveolar Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 14 1.4 1 1.0 4 1.0
Nose Foreign Body	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	49 5
Nose Inflammation, Chronic Active			1	1		2	2	1	2	1	2	1	1		2		1		2	1			1		32 1.3
Nose Goblet Cell, Respiratory Epithelium, Hyperplasia			1			2	1	1						1					1				1		18 1.2
Nose Nerve, Olfactory Epithelium, Atrophy			1								1	3		2		1	1	1		1			1		17 1.4
Nose Olfactory Epithelium, Accumulation, Hyaline Droplet		1	1	1	1		2	2	1	1	2	1		1	1	1	1	2		1			1		43 1.4
Nose Olfactory Epithelium, Atrophy		1		1					1		2	1	3	1	2	1	1	1	1		1	1		2	26 1.3
Nose Olfactory Epithelium, Pigmentation			1	2		1		2	1	2	1	2	2	2	2	2	1	1	2		2	2		1	39 1.5
Nose Olfactory Epithelium, Respiratory Metaplasia						1	1	1	1		3	1	3	2	2	2	2	2		1	2			2	30 1.5
Nose Respiratory Epithelium, Hyperplasia			1			2	2	1	1	2	1			2	2					1	1			1	28 1.4
Nose Transitional Epithelium, Hyperplasia						1	1		1						1				1	2			1	2	18 1.2
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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 Species/Strain: RATS/F 344/N

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 Ginkgo biloba extract
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 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	2	1	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	50
5	8	7	7	8	8	8	4	8	8	8	7	7	5	8	7	8	7	7	9	2	9	8	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	

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	2	1	1	2	2	2	4	1	2	49 2.0
Papilla, Necrosis		2																					1 2.0
Renal Tubule, Cyst																							1 2.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Chronic															2								1 2.0

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 Lab: BAT

FISCHER 344 RATS MALE	DAY ON TEST																									ANIMAL ID	males (cont...)		
	0727	0728	0727	0629	0631	0622	0628	0622	0627	0628	0625	0628	0627	0528	0624	0624	0625	0628	0629	0622	0626	0627	0628	0706	0707			0707	0704
300 mg/kg	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011

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	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	2	2	2
Hepatocyte, Fatty Change	1	1	1		1		1			1	1		1	1	1	1			3	3									2	

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 Lab: BAT

FISCHER 344 RATS MALE 300 mg/kg	DAY ON TEST																				ANIMAL ID	males (cont...)					
	0 7 2 7	0 7 2 8	0 7 2 7	0 6 9 2	0 6 1 7	0 7 2 1	0 6 2 6	0 7 2 8	0 7 2 7	0 6 2 5	0 7 2 8	0 7 2 8	0 5 8 8	0 6 3 4	0 5 9 5	0 6 2 8	0 7 2 9	0 6 6 2	0 7 2 7	0 7 2 8			0 6 0 6	0 7 2 7	0 5 2 4		
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		
Salivary Glands																											
Stomach, Forestomach																											
Inflammation, Chronic																											
Mineralization							3					2											3				
Ulcer																											
							3																				
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	1	1	
Atrium, Thrombosis																										

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

TDMS No. 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																				males (cont...)	
		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	6	7	7	5	6	5	6	7	7	6	7		7
FISCHER 344 RATS MALE		2	2	2	9	1	2	2	2	2	4	2	2	8	6	3	9	2	2	2	0		2
300 mg/kg		7	8	7	2	7	1	6	8	7	8	5	8	8	4	4	5	8	9	2	8	7	
		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	
		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	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	

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	2			1	2	2			2	4		2	1	2	1	2
Follicle, Hyperplasia											3		1		2			1		4				

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FISCHER 344 RATS MALE	DAY ON TEST																									males (cont...)
	0 7 2 7	0 7 2 8	0 7 2 7	0 6 9 2	0 6 1 7	0 7 2 1	0 6 2 6	0 7 2 8	0 7 2 7	0 6 2 5	0 7 2 8	0 7 2 7	0 5 8 8	0 6 6 4	0 5 3 4	0 6 9 5	0 7 2 8	0 7 2 9	0 6 6 2	0 7 2 7	0 7 2 8	0 7 0 6	0 7 2 7	0 5 4 7		
300 mg/kg	ANIMAL ID																									
	0 0 1 0	0 0 1 0	0 0 1 0	0 0 1 0	0 0 1 0	0 0 1 0	0 0 1 0	0 0 1 0	0 0 1 0	0 0 1 0	0 0 1 1	0 0 1 1	0 0 1 1	0 0 1 1	0 0 1 1	0 0 1 1	0 0 1 1	0 0 1 1	0 0 1 1	0 0 1 1	0 0 1 1	0 0 1 2	0 0 1 2	0 0 1 2	0 0 1 2	
Bone Marrow	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	
Hyperplasia	2	1							2	1				2	2		4	4	4					4	3	
Necrosis																									2	
Lymph Node							+			+		+				+									+	
Mediastinal, Ectasia											4															
Mediastinal, Hyperplasia, Lymphoid										2																
Lymph Node, Mandibular	+	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	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	4	3	4		4	4	4	4	

INTEGUMENTARY SYSTEM

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

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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 300 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	7	7	7	6	6	7	6	7	7	7	6	7	7	5	6	5	6	7	7	6	7	6	7	7	7	6	7
		2	2	2	9	1	2	2	2	2	4	2	2	8	6	3	9	2	2	6	2	2	0	2	4	4	7	
		7	8	7	2	7	1	6	8	7	8	5	8	8	4	4	5	8	9	2	7	8	6	7	4	7		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		males
																												(cont...)

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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

FISCHER 344 RATS MALE	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	
300 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	000	50
ANIMAL ID	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	50
	22	22	22	22	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	50
	67	67	67	67	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	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																									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	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	2	46 2.0
Hepatocyte, Fatty Change				1	1		3						1		1			2	1	1			3		23 1.4	

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

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DAY ON TEST	FISCHER 344 RATS MALE																				* TOTALS	
	060	068	072	077	084	077	077	077	077	077	077	077	077	077	077	077	077	077	077	077		077
300 mg/kg	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
ANIMAL ID	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
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7
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

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 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			
	060	068	062	062	068	062	062	062	062	062	062	062	062	062	062	062	062	068	062	062	062	067	062			
	060	060	060	060	060	060	060	060	060	060	060	060	060	060	060	060	060	060	060	060	060	060	060			
	061	061	061	061	061	061	061	061	061	061	061	061	061	061	061	061	061	061	061	061	061	061	061			
	062	062	062	062	063	063	063	063	063	063	063	063	063	063	064	064	064	064	064	064	064	064	064			
	066	067	068	069	060	061	062	063	064	065	066	067	068	069	060	061	062	063	064	065	066	067	068			
Follicular Cell, Hypertrophy	1	1	1	2		1	2	2	1	1		1	2	2	1	1	1	1		1	2	2	1	41	1.3	

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
 2 47 1.7
 1 2.0

Prostate
 Hyperplasia
 Inflammation

+ 50
 2 3 3 1 2 1 2 1 2 1 1 1 1 1 1 1 2 1 4 2
 3 1.0
 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

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| FISCHER 344 RATS MALE

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 | 0 | | | |
| | 6 | 5 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 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 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Hyperplasia | | 4 | | | | | | 3 | 1 | 1 | | | 3 | 2 | | 1 | 2 | | | | 1 | | | 21 | 2.4 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 4 | | 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 | 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 | 3 | 4 | 4 | | 46 | 3.9 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Duct, Cyst | | | | | | | 2 | | | | | | | | 2 | | | | | | | 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

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 | | |
|-------------|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|
| | 06 | 05 | 07 | 07 | 04 | 07 | 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 | 02 | 08 | 02 | 07 | 02 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | |
| | 02 | 02 | 02 | 02 | 03 | 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 | 07 | |

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 | | 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 | | 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 | 085 | 088 | 092 | 098 | 103 | 108 | 113 | 118 | 123 | 128 | 133 | 138 | 143 | 148 | 153 | 158 | | 163 | 168 | 173 | | |
| 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 | | | |
| 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 | 2 | 1 | 2 | 2 | | |
| Olfactory Epithelium, Respiratory Metaplasia | 1 | | 1 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 1 | 2 | | | 2 | 2 | 2 | | | | |
| 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 | |
| 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 | |
| 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 | |
| Renal Tubule, Cyst | | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | 2.0 |
| 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:
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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 | 0
7
2
8 | 0
7
2
7 | 0
7
2
7 | 0
6
9
9 | 0
6
8
9 | 0
6
8
8 | 0
6
6
5 | 0
6
0
2 | 0
7
2
9 | 0
6
2
7 | 0
7
2
7 | 0
6
2
5 | 0
7
6
7 | 0
6
2
5 | 0
7
1
7 | 0
6
5
8 | 0
5
9
5 | 0
5
1
0 | 0
7
1
0 | 0
7
1
1 | 0
7
2
8 | 0
7
2
2 | 0
7
2
9 | 0
6
4
0 | males
(cont...) |
| | ANIMAL ID | 0
0
1
5
1 | 0
0
1
5
2 | 0
0
1
5
3 | 0
0
1
5
4 | 0
0
1
5
5 | 0
0
1
5
6 | 0
0
1
5
7 | 0
0
1
5
8 | 0
0
1
5
9 | 0
0
1
6
0 | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
6
3 | 0
0
1
6
4 | 0
0
1
6
5 | 0
0
1
6
6 | 0
0
1
6
7 | 0
0
1
6
8 | 0
0
1
6
9 | 0
0
1
7
0 | 0
0
1
7
1 | 0
0
1
7
2 | 0
0
1
7
3 | 0
0
1
7
4 | |

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 | 1 | 1 | |
| Mixed Cell Focus | X | X | X | | | | | | | X | | | | | | | | | X | | X | X | | | | |
| Necrosis | | | | | 2 | 3 | | | 1 | | | | | | 3 | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 M .. Missing tissue
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 BLANK .. Not examined microscopically
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 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...) | | | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0728 | 0727 | 0727 | 0669 | 0668 | 0668 | 0665 | 0662 | 0679 | 0667 | 0677 | 0677 | 0666 | 0677 | 0665 | 0677 | 0668 | 0650 | 0651 | 0671 | | | 0677 | 0677 | 0677 |
| 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 | | | | | 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...) |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0728 | 0727 | 0727 | 0669 | 0668 | 0668 | 0665 | 0662 | 0679 | 0667 | 0677 | 0666 | 0677 | 0665 | 0677 | 0666 | 0665 | 0551 | 0559 | 0771 | 0771 | 0772 | 0772 | 0764 | 0765 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00151 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00152 | |
| | 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 | 00153 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 00154 | |
| | 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 | 00155 | |

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

2

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Hyperplasia, Focal

1 2 2 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 2 1 1 2 1 1 2 1 1 1 1 3 1 1 1

Vacuolization Cytoplasmic, Diffuse

Adrenal Medulla

+ +

Hyperplasia

3 2 1 2 1

Islets, Pancreatic

+ +

Hyperplasia

1 4

Parathyroid Gland

+ + + M +

Hyperplasia

2 2

Pituitary Gland

+ +

Angiectasis

Cyst

Pars Distalis, Hyperplasia

1 1 2 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:

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...) | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|---|------|
| | 0728 | 0727 | 0727 | 0669 | 0668 | 0668 | 0665 | 0662 | 0669 | 0667 | 0667 | 0662 | 0662 | 0665 | 0667 | 0667 | 0668 | 0665 | 0660 | 0665 | 0669 | 0661 | 0667 | 0667 | 0668 | | | 0669 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 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 1 1 | |
| Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2 2 1 2 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Epididymis
Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Preputial Gland
Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2 2 2 2 2 2 1 2 |
| Prostate
Hyperplasia
Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1 1 2 2 2 4 1 2 1 |
| 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:
 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 | | |
|------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 6 | 5 | 5 | 7 | 7 | 7 | 6 | |
| | | 2 | 2 | 2 | 9 | 8 | 8 | 6 | 0 | 2 | 6 | 2 | 2 | 6 | 2 | 7 | 1 | 5 | 9 | 1 | 9 | 1 | 1 | 2 | 4 | |
| | | 8 | 7 | 7 | 9 | 9 | 8 | 5 | 2 | 9 | 7 | 7 | 7 | 5 | 7 | 5 | 7 | 8 | 5 | 0 | 1 | 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 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 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 |
| FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 mg/kg | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)

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

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

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 | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 07 | 07 | 07 | 06 | 06 | 06 | 06 | 06 | 06 | 07 | 06 | 07 | 07 | 06 | 07 | 06 | 07 | 06 | 06 | 05 | | | 05 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 05 | 05 | 07 | 07 | 07 | 07 | 07 | 06 | | | | | | | | | | | |
| 1000 mg/kg | 28 | 27 | 27 | 29 | 28 | 28 | 26 | 20 | 22 | 26 | 22 | 22 | 26 | 22 | 27 | 25 | 27 | 21 | 25 | 29 | 21 | 29 | 21 | 21 | 22 | 22 | 26 | 25 | 20 | 21 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | | | |
| | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |
| | | | | | | | | | | | | | | | | | | | | | | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Skin
Subcutaneous Tissue, Hemorrhage

MUSCULOSKELETAL SYSTEM

Bone
Hyperostosis

NERVOUS SYSTEM

Brain
Hippocampus, Necrosis

Peripheral Nerve
Axon, Degeneration

Spinal Cord

RESPIRATORY SYSTEM

Lung
Inflammation, Acute
Inflammation, Chronic
Thrombosis
Alveolar Epithelium, Hyperplasia

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

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

+ .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

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

TDMS No. 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 | | | | | | | | | | | | | | | | | | | | | | | | | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) |
| | | 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 | |
| | ANIMAL ID | 2 | 2 | 2 | 9 | 8 | 8 | 6 | 0 | 2 | 6 | 2 | 2 | 6 | 2 | 7 | 1 | 5 | 9 | 1 | 9 | 1 | 1 | 2 | 2 | 4 | |
| | | 8 | 7 | 7 | 9 | 9 | 8 | 5 | 2 | 9 | 7 | 7 | 5 | 7 | 5 | 7 | 8 | 5 | 0 | 1 | 0 | 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 | 0 | 0 | |
| | | 0 | 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 | 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 | |

| | | |
|-----------------------|---|---|
| Inflammation, Acute | | |
| Inflammation, Chronic | 3 | 3 |
| Mineralization | 3 | |
| Ulcer | | 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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TDMS No. 99031 - 03
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Ginkgo biloba extract
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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 | | | | | |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----|
| | 0568 | 0710 | 0703 | 0727 | 0693 | 0665 | 0668 | 0663 | 0778 | 0564 | 0663 | 0673 | 0773 | 0777 | 0777 | 0777 | 0668 | 0727 | 0575 | 0777 | | 0775 | 0566 | 0666 | 0666 | |
| 1000 mg/kg | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 00200 | 50 |

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 | 2 | + | | | | | | | | | | | | | | | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | | | 22 | | |
| Clear Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | 11 | | |
| Degeneration, Cystic | 1 | | | | | | | | | | | | | | | | | | | | | | | 14 | 1.1 | |
| Eosinophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | 21 | | |
| Inflammation, Chronic | 1 1 1 1 1 1 1 2 1 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | 32 | 1.2 | |
| Mixed Cell Focus | 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 | | | | |
|-------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|------|----|-----|
| | 0568 | 0710 | 0702 | 0729 | 0666 | 0666 | 0669 | 0672 | 0675 | 0669 | 0677 | 0677 | 0677 | 0677 | 0677 | 0668 | 0672 | 0675 | 0677 | 0677 | | 0656 | 0666 | | |
| ANIMAL ID | 001766 | 000117 | 000077 | 000077 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | | | |
| 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 | 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 | | | 1 | 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 | | | | | | | | | | | 1 | 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

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 | | | |
|-------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|
| | 0568 | 0710 | 0702 | 0729 | 0666 | 0666 | 0669 | 0672 | 0655 | 0669 | 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 | | |
| Aorta, Mineralization | | | | | | | | | | | | | | | | | | | | | | | 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 | 50 1.8 |
| Atrium, Thrombosis | | | | | | | | | | | | | 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 | 4 | 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 | | | | | 2 | 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
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TDMS No. 99031 - 03
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 Species/Strain: RATS/F 344/N

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 Ginkgo biloba extract
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Date Report Requested: 01/17/2011
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 Lab: BAT

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|
| | 0568 | 0710 | 0703 | 0727 | 0693 | 0665 | 0668 | 0663 | 0792 | 0554 | 0663 | 0773 | 0777 | 0777 | 0772 | 0688 | 0775 | 0571 | 0778 | 0551 | 0668 | 0669 | | |
| ANIMAL ID | 00176 | 00011 | 00077 | 00077 | 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 | 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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TDMS No. 99031 - 03
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 Species/Strain: RATS/F 344/N

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 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | 10
1 2.0 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 2 3 1 3.0 |
| Pancreatic, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal, 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 Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0 |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
6 2.8 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 4 2 2 4 1 3 2 3 14 2.8 |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
46 3.9 |
| Epithelial Cell, Hyperplasia | 4 | 3 | 4 | | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 2 1 2.0 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 4.0 |
| Duct, Cyst | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 1 1 1 1 12 1.3 |

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

| FISCHER 344 RATS MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|---------|-------------|------|
| | 0568 | 0710 | 0702 | 0793 | 0665 | 0668 | 0669 | 0672 | 0675 | 0669 | 0678 | 0664 | 0663 | 0677 | 0677 | 0677 | 0677 | 0677 | 0668 | 0672 | | 0675 | 0677 | 0677 | 0658 | 0666 | 0666 |
| ANIMAL ID | 001766 | 000117 | 000077 | 000077 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000088 | 000099 | 000099 | 000099 | 000099 | 000099 | 000099 | 000099 | 000099 | 000099 | 000099 | 000099 | 000099 | |
| 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 | + | + | + | + | + | + | + | + | + | X | X | + | + | + | + | + | + | + | + | + | + | + | + | + | 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
 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 | 0703 | 0727 | 0665 | 0668 | 0669 | 0672 | 0675 | 0668 | 0679 | 0672 | 0677 | 0677 | 0677 | 0677 | 0677 | 0668 | 0672 | 0675 | | 0677 | 0677 | 0658 | 0666 | 0666 | |
| ANIMAL ID | 001766 | 000117 | 000177 | 000177 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | 000188 | | |
| Nerve, Olfactory Epithelium, Atrophy | | | | 2 | 2 | | 2 | | 2 | | | | 3 | | | 3 | 3 | 2 | 3 | | | 1 | | | 3 | 23 2.5 | |
| Olfactory Epithelium, Atrophy | | 2 | | 2 | 2 | | 2 | 2 | 2 | | 1 | 3 | 3 | 1 | | 3 | 3 | 2 | 3 | | | 1 | | 1 | 3 | 31 2.2 | |
| Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Olfactory Epithelium, Pigmentation | | 3 | | 2 | 1 | | 2 | 2 | 2 | | | 2 | 2 | 1 | | 3 | 2 | 2 | 2 | | | 2 | | 1 | 2 | 30 2.1 | |
| Olfactory Epithelium, Respiratory Metaplasia | | 2 | | 2 | 3 | | 2 | 2 | 3 | 1 | 2 | 2 | 3 | 1 | | 3 | 2 | 2 | 2 | | | 2 | 2 | | 3 | 32 2.5 | |
| Respiratory Epithelium, Hyperplasia | | 2 | | 2 | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | | 2 | 2 | 2 | 2 | | | 2 | 2 | | 3 | 35 2.2 | |
| Submucosa, Fibrosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 8 1.6 | |
| Transitional Epithelium, Hyperplasia | | 3 | | 3 | 3 | | 3 | 2 | 2 | | 1 | 1 | 2 | 2 | | 2 | 3 | 2 | | | | 2 | | | 3 | 31 2.5 | |
| Trachea Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 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 | 1 3.0 | |
| Nephropathy | 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 | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Pelvis, Inflammation, Acute | | | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |
| 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 | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| | 0568 | 0710 | 0737 | 0763 | 0666 | 0666 | 0666 | 0666 | 0772 | 0559 | 0666 | 0667 | 0677 | 0677 | 0677 | 0677 | 0677 | 0682 | 0672 | 0575 | 0777 | 0775 | 0575 | 0666 | 0666 | |
| ANIMAL ID | 1000 mg/kg | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| | 001766 | 00001 | 00001 | 00001 | 00000 | 00000 | 00000 | 00000 | 00000 | 00001 | 00001 | 00001 | 00001 | 00001 | 00001 | 00001 | 00001 | 00000 | 00000 | 00000 | 00001 | 00001 | 00001 | 00001 | 00001 | |
| Inflammation, Acute | 2 | | | | 3 | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | 4 | | | | | | | | | | | | | | | | | | | 2 3.0 |

*** END OF MALE DATA ***

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

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

TDMS No. 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 | 0 | 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 | 5 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | | |
| | 0 mg/kg | 2 | 2 | 2 | 5 | 3 | 9 | 2 | 3 | 2 | 2 | 2 | 9 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 8 | 8 | 8 | 9 | 3 | | |
| | | 9 | 9 | 8 | 1 | 0 | 8 | 0 | 9 | 9 | 9 | 6 | 0 | 8 | 0 | 0 | 8 | 0 | 8 | 8 | 9 | 8 | 8 | 2 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 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 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

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 | 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 | | | 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 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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TDMS No. 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 | | | | | | | | | | | | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
0 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0729 | 0729 | 0728 | 0551 | 0770 | 0478 | 0777 | 0777 | 0777 | 0777 | 0777 | 0576 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0673 | 0777 | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Degeneration, Cystic | | 1 | | | 2 | | 1 | | | | | 2 | 2 | | | 1 | | | | | 1 | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | 2 | | | 1 | | | | | | | 3 | | 1 | 2 | | | | |
| Hypertrophy, Focal | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Diffuse | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic, Focal | 1 | | | | | | | | 1 | | 1 | 1 | | | 1 | | | | 2 | 1 | 1 | 1 | 1 | 1 | | | |
| Vacuolization Cytoplasmic, Diffuse | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | 2 | | | | | | | | | 1 | | | | | | | | | | 2 | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | M | + | M | + | M | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | 1 | 2 | | | 1 | 1 | | | | | | | | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | | |
| Pars Distalis, Cyst | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | 2 | | 2 | | | | 3 | 1 | | | | | | 2 | | | 3 | | 2 | 2 | 2 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| C-cell, Hyperplasia | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | |
| Follicle, Hyperplasia | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hypertrophy | 1 | 1 | | | | | | | | 1 | | | | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | | | 1 | | |

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
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TDMS No. 99031 - 03
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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
 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 | 3 | 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 | | | | 2 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | 2 | | | | | | | | | | | | | | | | 3 | | 1 | 3 |

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 | 3 | 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
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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

| 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 | 9 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 9 | 3 | 0 | |
| | 9 | 9 | 8 | 1 | 0 | 8 | 9 | 0 | 9 | 9 | 9 | 6 | 0 | 8 | 0 | 0 | 0 | 0 | 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 | |
| | 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 | 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 | 2 | 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
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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 |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 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 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 50 |
| | 67 | 78 | 89 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 3 1.0 |

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 | 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 | 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) 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
0 mg/kg | 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 | |
| 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 | |
| Hepatocyte, Fatty Change | | | | 1 | | | | | 3 | | | 1 | | | 1 | | 2 | | 2 | 2 | 1 | | | | |
| Hepatocyte, Hypertrophy | | | | | 1 | | | | | | 1 | | 2 | 2 | 2 | | 1 | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | 5 1.4 | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 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 | 49 1.6 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 Ginkgo biloba extract
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 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 | 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 | 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 | | 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 | | | 2 | 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 | 40 1.2 |
| 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 | 67 | 78 | 89 | 90 | 01 | 12 | 23 | 34 | 45 | 56 | 67 | 78 | 89 | 90 | 01 | 12 | 23 | 34 | 45 | 56 | 67 | 78 | 89 | 90 | 3 1.3 |
| | 67 | 78 | 89 | 90 | 01 | 12 | 23 | 34 | 45 | 56 | 67 | 78 | 89 | 90 | 01 | 12 | 23 | 34 | 45 | 56 | 67 | 78 | 89 | 90 | 36 1.2 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Clitoral Gland
Hyperplasia
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 1.3 |
| | 1 | | 1 | | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | | | | | | 1 | 1 | 1 | | 36 1.2 |
| Ovary
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 2.3 |
| | | | 2 | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Uterus
Cyst
Inflammation, Suppurative
Endometrium, Hyperplasia, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 4 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 3 2.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Bone Marrow
Hemorrhage
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 |
| | | | 3 | | | | | | | | | | | | | | | | | | | | 2 | | | 7 3.1 |
| Lymph Node
Pancreatic, Congestion | | | | | | | | | | | | | | | | | | | | | | | | + | 3 | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 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 | 0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen
Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 14 1.8 |
| | | | 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 FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|----------|
| | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | |
| 0 mg/kg | 29 | 41 | 30 | 29 | 33 | 00 | 22 | 88 | 33 | 90 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 49 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 | |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 48 | |
| | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 90 | |
| Hyperplasia, Histiocytic
Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 1 3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4.0 | |
| Thymus
Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 48 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 48 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.8 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 14 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 14 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.5 | |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain
Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung
Cyst
Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.0 | |

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

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99031 - 03
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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
 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 | | | | | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----------|---|---|---|---|----|--------|-------|
| | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | | | | | | | | |
| 0 mg/kg | 2 | 4 | 3 | 2 | 3 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 5 | 8 | 2 | 8 | 1 | 2 | 3 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 8 | | |
| | 9 | 1 | 0 | 9 | 0 | 0 | 9 | 8 | 3 | 9 | 0 | 8 | 4 | 8 | 9 | 7 | 4 | 9 | 0 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Metaplasia, Osseous | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 3 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | | | | | | 49 | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Chronic Active | | | | 1 | | | | 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 1.0 | |
| 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 | 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:
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TDMS No. 99031 - 03
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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

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

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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | X | X | X |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 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 | 1 | | 1 | 2 | | | 1 | 1 | 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
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 Lab: BAT

| FISCHER 344 RATS FEMALE
100 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|--|
| | 0609 | 0708 | 0609 | 0708 | 0708 | 0609 | 0708 | 0708 | 0308 | 0708 | 0708 | 0708 | 0708 | 0708 | 0708 | 0408 | 0708 | 0708 | 0708 | 0609 | 0609 | 0609 | 0609 | 0609 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00051 | |
| | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 00052 | |
| | 0 | 2 | 2 | 2 | 2 | 6 | 2 | 3 | 8 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 1 | 9 | 4 | 7 | 3 | 00053 | |
| | 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 | 00054 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00055 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00056 | |
| | 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 | 00057 | |
| | 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 | 00058 | |
| | 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 | 00059 | |

Hepatocyte, Hypertrophy
 Ito Cell, Hyperplasia

2 1 2

1 1 1

1

Mesentery
 Fat, Necrosis

+
3

+
2

Pancreas
 Acinus, Atrophy
 Duct, Hyperplasia

+
 1

Salivary Glands

+ +

Stomach, Forestomach
 Inflammation, Chronic
 Ulcer

+
 3
3

Stomach, Glandular
 Inflammation, Chronic
 Mineralization
 Ulcer
 Glands, Ectasia

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

CARDIOVASCULAR SYSTEM

Blood Vessel
 Aorta, Mineralization

+
 1

Heart
 Cardiomyopathy
 Atrium, Thrombosis

+
 1 2 2 1 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 | | |
| | 09 | 08 | 09 | 08 | 08 | 00 | 09 | 00 | 03 | 09 | 09 | 00 | 00 | 00 | 08 | 03 | 09 | 09 | 00 | 09 | 01 | 02 | 04 | 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 | | |
| | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 00 | | |
| | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 00 | | |
| | 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 | 00 | |

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0609 | 0728 | 0629 | 0728 | 0778 | 0660 | 0770 | 0773 | 0373 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0428 | 0729 | 0729 | 0733 | 0729 | 0729 | 0612 | 0664 | 0667 | |
| 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 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic
Mineralization | 1 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Ovary
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus
Inflammation, Suppurative
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Endometrium, Hyperplasia, Cystic | 1 | 3 | | | | | | 3 | | 2 | 2 | 1 | | | | 1 | | 1 | | | | | | |
| 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 |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0609 | 0788 | 0629 | 0728 | 0778 | 0660 | 0770 | 0773 | 0383 | 0729 | 0770 | 0773 | 0773 | 0773 | 0773 | 0428 | 0729 | 0770 | 0773 | 0773 | 0621 | 0669 | 0664 | 0667 | 0670 | |
| ANIMAL ID | 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 | |
| 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
 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 | 0708 | 0609 | 0708 | 0708 | 0609 | 0708 | 0708 | 0303 | 0708 | 0708 | 0708 | 0708 | 0708 | 0708 | 0403 | 0708 | 0708 | 0708 | 0708 | 0609 | 0609 | 0609 | 0609 | | |
| | 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 | 002 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 003 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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 | 005 | |

Inflammation, Chronic
 Metaplasia, Osseous

1

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

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

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye
 Cataract
 Retina, Atrophy

+
 3
 3

Harderian Gland
 Inflammation, Chronic

+
 2
 1 2

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
 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 | 0708 | 0609 | 0708 | 0708 | 0600 | 0709 | 0700 | 0303 | 0709 | 0700 | 0700 | 0700 | 0700 | 0700 | 0408 | 0709 | 0700 | 0700 | 0700 | 0602 | 0604 | 0600 | 0600 | | |
| 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
 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 | 0732 | 0774 | 0638 | 0360 | 0672 | 0775 | 0576 | 0776 | 0575 | 0675 | 0775 | 0773 | 0232 | 0338 | 0773 | 0663 | 0668 | 0558 | | | |
| 100 mg/kg | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 0027 | 50 | | |
| ANIMAL ID | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | 1 | | | | | | | | | | | | | | | 2 1.5 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | 2 | | | | | | | | | | | | | | | | | | | 1 | | 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 | 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
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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 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 | 0473 | 0772 | 0634 | 0368 | 0600 | 0722 | 0755 | 0576 | 0777 | 0555 | 0722 | 0733 | 0723 | 0773 | 0323 | 0733 | 0773 | 0663 | 0665 | 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 | | |
| Hepatocyte, Hypertrophy | 2 | | | | | | | | | | 2 | | | | 3 | 3 | 1 | | | 1 | 2 | 2 | | | |
| Ito Cell, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Pancreas
Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Duct, Hyperplasia | 1 | | 1 | | | | | | | | | | 1 | | | 1 | | | | 1 | | 1 | | | |
| 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 | 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 | 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
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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
 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 | 0739 | 0624 | 0380 | 0679 | 0778 | 0779 | 0559 | 0775 | 0675 | 0779 | 0770 | 0772 | 0332 | 0738 | 0770 | 0677 | 0677 | 0666 | 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 | 0099 | 50 |
| | 0027 | 0027 | 0027 | 0027 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 3 |
| | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.6 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.6 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Hypertrophy, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.4 |
| Vacuolization Cytoplasmic, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 14 1.2 |
| Vacuolization Cytoplasmic, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.4 |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 47 | |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 24 1.4 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 13 1.9 |
| Thyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 38 1.3 |
| Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 0722 | 0735 | 0779 | 0779 | 0634 | 0368 | 0679 | 0779 | 0779 | 0555 | 0779 | 0679 | 0779 | 0779 | 0373 | 0779 | 0779 | 0663 | 0663 | 0588 | 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 | 0099 | 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 | 0027 | 4 1.3 |
| | 2776 | 2777 | 2778 | 2779 | 2780 | 2781 | 2782 | 2783 | 2784 | 2785 | 2786 | 2787 | 2788 | 2789 | 2790 | 2791 | 2792 | 2793 | 2794 | 2795 | 2796 | 2797 | 2798 | 2799 | 39 1.3 |
| | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 1 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 | 13 1.6 |
| Vagina | 2 | | | 1 | 1 | 1 | | | | | | | | | | | | 2 | | | | | | | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 11 2.7 |
| Lymph Node Deep Cervical, Hyperplasia, Lymphoid Mediastinal, Hemorrhage | + | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 2.0 |
| Lymph Node, Mandibular | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mesenteric | 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 | |
| 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
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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

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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 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
 I .. Insufficient tissue
 M .. Missing tissue
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 Lab: BAT

| FISCHER 344 RATS FEMALE
100 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|----------------|
| | 0560 | 0696 | 0729 | 0475 | 0730 | 0774 | 0638 | 0360 | 0679 | 0788 | 0729 | 0555 | 0765 | 0779 | 0730 | 0775 | 0730 | 0327 | 0733 | 0633 | | 0666 | 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 | |
| Inflammation, Chronic Metaplasia, Osseous | | | | | 1 | | | | | | | | | | | 1 | | | | | | | 3 1.0
1 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Foreign Body | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Inflammation, Chronic Active | | | | 2 | | | | | | | | | 2 | 1 | | | 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 | | 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 | | | 1 | 2 | | | | | | 1 | | | | 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 | 1 | 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
 M .. Missing tissue
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 Lab: BAT

| FISCHER 344 RATS FEMALE
100 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|
| | 0560 | 0666 | 0729 | 0475 | 0773 | 0772 | 0644 | 0380 | 0669 | 0778 | 0779 | 0559 | 0775 | 0665 | 0775 | 0773 | 0723 | 0322 | 0732 | 0773 | 0663 | 0663 | 0566 | 0568 | |
| 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
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1-4 .. Lesion qualified as:
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 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
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 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
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
9 | 0
7
3
0 | 0
6
2
8 | 0
7
2
0 | 0
7
3
0 | 0
7
2
9 | 0
7
3
0 | | | 0
7
2
8 | 0
7
3
0 | 0
7
2
8 | 0
7
2
7 | 0
4
7
4 | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-------|
| | 0644 | 0721 | 0700 | 0655 | 0732 | 0772 | 0670 | 0580 | 0770 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | 0772 | | 0772 |
| 300 mg/kg | 0026 | 0037 | 0038 | 0039 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 50 |
| ANIMAL ID | 0032 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 2 2.0 |
| | 0022 | 0022 | 0022 | 0022 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 2 1.0 |
| | 0066 | 0067 | 0068 | 0069 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|---|-----|----|-----|-----|----|-----|---|-----|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | |
| Intestine Large, Cecum
Inflammation, Chronic | + | | | | | | | | | | | | | | | | | | 2 | 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 | | 44 | | | |
| Clear Cell Focus | X | | | | X | | X | | X | | 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 | | 38 | | | |
| Fatty Change, Focal | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | 30 | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Inflammation, Chronic | 2 | | 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 | | 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 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | 0644 | 0721 | 0770 | 0655 | 0733 | 0772 | 0778 | 0669 | 0550 | 0770 | 0778 | 0778 | 0778 | 0779 | 0779 | 0533 | 0739 | 0664 | 0772 | 0772 | 0778 | 0772 | 0778 | 0778 | | 0778 |
| 300 mg/kg | 00326 | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 50 |
| | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 50 |
| | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 50 |
| | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 50 |

GENITAL SYSTEM

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

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|---------|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 9 2.4 | |
| Bone Marrow 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 | M | M | 0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 13 1.4 |
| Spleen Hyperplasia, Histiocytic | 2 | 1 | | 2 | | | 1 | | | | 1 | | | | 1 | 3 | | 2 | 1 | | | | | | | | | | 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:
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 2) Mild 4) Marked

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
 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 | 0770 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | |
| ANIMAL ID | 00326 | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | | | |
| 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
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 M .. Missing tissue
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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
 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 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 | 00051 | 00052 | 00053 | 00054 | 00055 | 00056 | | | | | | |
| 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 | 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 3 2.3 | |
| Cataract Degeneration | | | | | | 3 | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 | |
| Retina, Atrophy | | | | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 | |
| Retrobulbar, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Harderian Gland Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 8 1.0 | |
| Harderian Gland Inflammation, Chronic | 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
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 I .. Insufficient tissue
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 BLANK .. Not examined microscopically
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TDMS No. 99031 - 03
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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
 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 | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
| | 0637 | 0733 | 0733 | 0732 | 0672 | 0772 | 0772 | 0663 | 0776 | 0666 | 0766 | 0665 | 0777 | 0777 | 0552 | 0723 | 0723 | 0556 | 0723 | 0728 | 0557 | 0503 | 0573 | 0772 | | | 0772 |
| Inflammation, Chronic | | 1 | 2 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 2 | 2 | 2 | 1 | | 2 | 1 | | 1 | | | | 2 | 1 | |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus Inflammation, Suppurative | | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Uterus Endometrium, Hyperplasia, Cystic | | | | | | 1 | | | | | | | | 2 | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | M | M | M |
| Lymph Node, Mesenteric Pigmentation, Hemosiderin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen Hyperplasia, Histiocytic | | | | | 1 | | | | | | | 1 | | | 3 | | | | | | | | 1 | | | 1 | |
| Spleen Lymphoid Follicle, Atrophy | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| 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

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 | 073 | 072 | 075 | 072 | 071 | 070 | 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 | | |
| 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:
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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 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 | | | | | |
| | | | | | 2 | | | | | | 2 | | | | | | | | | | 2 | | | | | 3 | 2.0 | | | | |
| Uterus Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Inflammation, Suppurative | 2 | | | | | | | | | | 2 | | | | | | | | | | | | | | | 4 | 2.0 | | | | |
| Endometrium, Hyperplasia, Cystic | 2 | | | | | | | | | | | | | | | 1 | | | | | | | | | | 5 | 1.6 | | | | |
| | | | | | 1 | 1 | | | | | 1 | | | | | 1 | | | | | 2 | | | | | 7 | 1.3 | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| | | | | | | | | | | | | 3 | 3 | | | | | 4 | 1 | | | | | | 2 | | | | 2 | 12 | 2.5 |
| Lymph Node Ectasia | + | | | | | | | | | + | | | | | | + | | | | | | | | | + | | | | 4 | | |
| Mediastinal, Ectasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | 2 | | | | | | | | | | | 2 | | | | 1 | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 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 | M | M | 0 | | |
| Lymph Node, Mesenteric Pigmentation, Hemosiderin | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 13 | 1.4 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 2.6 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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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
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 | 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 | 00397 | 00398 | 00399 | | |
| Atrophy | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 47 | 3.8 |
| Ectopic Thyroid | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Duct, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | 1 | | 1 | | | | | | | | 1 | | | | | | | | | | | | 1 | 6 | 1.3 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Hyperostosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain Congestion Hippocampus, Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Lung Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | 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
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 I .. Insufficient tissue
 M .. Missing tissue
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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
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 | 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 | 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 | 37 2.5 |
| Respiratory Epithelium, Hyperplasia | 3 | 3 | 2 | 2 | 2 | | 2 | | 2 | 2 | | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | | | 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 | 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
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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
 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 | 073 | 070 | 077 | 076 | 072 | 073 | 077 | 077 | 077 | 077 | | |
| 1000 mg/kg | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | 00397 | 00398 | 00399 | | |
| 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
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