

TDMS No. 20107 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine

CAS Number: 99-97-8

Date Report Requested: 02/28/2011

Time Report Requested: 11:17:44

First Dose M/F: 10/20/04 / 10/21/04

Lab: BAT

F1_Rev.1__R2

C Number: C20107
Lock Date: 02/20/2008
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: 01/25/2011

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

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		X		X	X		X		X		X	
Clear Cell Focus	X	X	X	X	X		X	X		X		X	X	X	X		X		X	X	X		X		X		X
Congestion																											
Degeneration, Cystic																											
Eosinophilic Focus				X			X	X				X	X														
Fatty Change, Focal																											
Fatty Change, Diffuse																											
Hematopoietic Cell Proliferation																											
Hemorrhage																											
Hepatodiaphragmatic Nodule		X										X	X								X						

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

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	6	7	7	6	7	7	6	6	7	7	7	7	7	6	7	7	7	6	7	7	
ANIMAL ID	2	2	2	2	2	8	2	2	4	2	2	8	1	2	2	2	2	1	2	1	2	2	2	2	0	
	8	7	9	8	8	0	7	7	5	7	7	8	0	8	7	7	7	0	7	0	7	0	7	0	9	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
Inflammation	1	1	1	1	1		1	1		1	1		1	1	1	1	2		1	1	1	2	1	1		
Mixed Cell Focus	X	X	X	X								X								X				X		
Bile Duct, Fibrosis			1		1	1						1				1							1	1		
Bile Duct, Hyperplasia			1	1	1	2	2	1	1		1	1	1		2	2			2		1	1	1	1	1	
Hepatocyte, Necrosis							1													1						
Mesentery								+		+					+										+	
Fat, Necrosis								3		2					3										3	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus																										
Cyst																	2									
Infiltration Cellular, Mononuclear Cell	1	1		1						1			1		2	1		2		1			1			
Acinus, Atrophy														2	2	2	1	1		3			1		3	2
Acinus, Hyperplasia			2																						2	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																										
Inflammation																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																									1	
Tooth																										
Peridental Tissue, Inflammation																										

CARDIOVASCULAR SYSTEM

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

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	2	1	1	1	1	1	1	1	1	2	1	1	2	1	2	1		1	2	2	2	2	2
Pigmentation																								

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis												1			1		2	2		2		1		1	
Hyperplasia							1	2			2						1	2		2			1	1	
Hypertrophy													1	1					2			1	1		
Vacuolization Cytoplasmic			1		1	1	1	1	2			2	1					3		1		2	1	2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia			1			1	1	2		1		2	3			2			2						
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																									
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal												2													
Hyperplasia, Diffuse									2																
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst			X																						
Pars Distalis, Hemorrhage																									
Pars Distalis, Hyperplasia			1	2	1				3							3							2	3	2
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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	0 7 2 8	0 7 2 7	0 7 2 9	0 7 2 8	0 7 2 8	0 6 2 0	0 7 2 7	0 7 2 7	0 6 2 5	0 7 2 7	0 6 2 8	0 6 2 1	0 7 2 8	0 6 2 7	0 7 2 7	0 7 2 7	0 6 2 1	0 7 2 2	0 6 2 1	0 7 2 2	0 7 2 9	0 7 2 7	0 7 2 8	0 6 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 1	1
C-cell, Hyperplasia																											1 2 3 3 1 1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland																												
Inflammation																												4
Epithelium, Hyperplasia																												3
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hyperplasia																											3	
Inflammation	1	2	2	2	1	2	2	2	2	1	1	2	2	1	1	2	2	1	1	2	1	1	2	2	2			
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Inflammation																											2 3 2 1 3 2 1 3 2 1 3 1 3 1 2 1 2 1 2 1 1 2 2 1	
Epithelium, Hyperplasia																											1 1 1	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Inflammation																											3	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Mineralization																												
Interstitial Cell, Hyperplasia																											1 2 1 2 1 1	

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
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	0 7 2 8	0 7 2 7	0 7 2 9	0 7 2 8	0 7 2 8	0 6 8 0	0 7 2 7	0 7 2 7	0 6 4 5	0 7 2 7	0 7 2 7	0 6 8 0	0 6 1 8	0 7 2 8	0 7 2 7	0 7 2 7	0 7 2 7	0 7 2 1	0 7 2 2	0 6 1 2	0 7 2 2	0 7 2 2	0 7 2 2	0 7 2 2	0 6 7 8	0 7 2 8				
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia									4			4		2		2				3	1						3	2		
Necrosis																														
Lymph Node																														
Deep Cervical, Hyperplasia, Plasma Cell									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	M	M	M	M	M	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid								2				2																		
Infiltration Cellular, Histiocyte	1	1					1							1	1				1					1		1	1			
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Congestion								2																						
Hematopoietic Cell Proliferation	1	1		1	1		1	1		1	1		1	1	1	1	1		1	1		1	1		1	1				
Pigmentation	1	1	1	1	1		1			1	1		2	1	1	1	1		1	1	1	2	1							
Capsule, Fibrosis									2																					
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Atrophy	4	3	2		2		4	3	4	2	2	4	3	2	2	4	4	4	4	2	3	2	3	2	3	2	2			

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

MUSCULOSKELETAL SYSTEM

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	0 7 2 8	0 7 2 7	0 7 2 9	0 7 2 8	0 7 2 8	0 6 2 0	0 7 2 7	0 7 2 7	0 6 4 5	0 7 2 7	0 6 2 8	0 6 1 0	0 7 2 8	0 7 2 7	0 7 2 7	0 6 2 0	0 7 2 7	0 6 2 0	0 7 2 1	0 7 2 2	0 7 2 9	0 7 2 7	0 7 2 8	0 6 2 9			
0 MG/KG	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 1 0	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 2 1	0 0 0 2 2	0 0 0 2 2	0 0 0 2 3	0 0 0 2 4	0 0 0 2 5	0 0 0 2 6	0 0 0 2 7	
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Demyelination																											
Hemorrhage																											
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																											
Alveolar Epithelium, Hyperplasia			3													3	2								3		
Alveolus, Infiltration Cellular, Histiocyte		1			1					1					1	1			1	1	1				1		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Foreign Body						X	X			X							X						X				
Inflammation		1		1	1	2		1	1	3	1	1		1	1	3	1	1	1		2	1	2		1		
Glands, Respiratory Epithelium, Dilatation	1	1						1	1	1		1	1					1		1							
Glands, Respiratory Epithelium, Metaplasia, Respiratory	1	1	1		1	1		2	1	1	1	1			1	1			1	1		1					
Olfactory Epithelium, Accumulation, Hyaline Droplet	1	3	2	3	2	2	3	1	4	4	3	2	3	2	3	2	2	1	1	2	2	2	1	1			
Olfactory Epithelium, Metaplasia, Respiratory																										1	
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	2	2	2	1	2	2	3	1	1	1	1		2	2	1	2	1	1	1	1	1		1	1		
Respiratory Epithelium, Hyperplasia						1					1					2					1	2	1				
Transitional Epithelium, Hyperplasia																											
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0 MG/KG	7	7	7	7	7	6	7	7	6	7	7	6	6	7	7	7	7	7	6	7	7	7	7	6	7	7	6
	2	2	2	2	2	8	2	2	4	2	2	8	1	2	2	2	2	1	2	1	2	2	2	2	2	0	
	8	7	9	8	8	0	7	7	5	7	7	8	0	8	7	7	7	0	7	0	7	0	7	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	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2		

Inflammation

2

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cornea, Inflammation																									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation				2								1													
Zymbal's Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accumulation, Hyaline Droplet								2				2													
Mineralization	1	1	1	1	1	1	1	1	1	1	1			1	1	1		1	1	1	1	1	1	1	
Nephropathy	1	1	1	1	1	2	1	2	1	1	2	1	1	1	1	1	2	2	1	1	2	3	2		
Pigmentation								3			2						2				1		1	1	
Pelvis, Transitional Epithelium, Hyperplasia																								2	
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

DAY ON TEST	FISCHER 344 RATS MALE																								* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	6	7	6	7	6	7	6	7	50	
3	2	2	2	2	2	2	2	2	2	2	2	9	2	2	2	1	2	6	2	8	2	6	2	50	
7	8	9	7	8	7	9	7	8	9	9	8	9	8	9	9	2	8	5	8	8	0	9	4	7	50
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	
2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	50	
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	50	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	50 3
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																								1 2.0
Basophilic Focus		X	X	X	X	X		X	X			X	X		X					X	X	X	X	28
Clear Cell Focus				X	X		X	X	X	X			X	X		X	X	X			X		X	30
Congestion																	2							1 2.0
Degeneration, Cystic				1																				4 1.3
Eosinophilic Focus				X							X	X		X		X						X	11	
Fatty Change, Focal				1					1						1						1			6 1.3
Fatty Change, Diffuse																								1 2.0
Hematopoietic Cell Proliferation																								1 1.0
Hemorrhage																								1 2.0
Hepatodiaphragmatic Nodule		X						X										X		X				8

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X .. Lesion present

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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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																								* TOTALS
	033737	0378	0429	0478	0527	0576	0625	0674	0723	0772	0821	0870	0919	0968	1017	1066	1115	1164	1213	1262	1311	1360	1409	1458	
ANIMAL ID	0026	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	
Inflammation		1	1	1	1	1		2	2	1	1	1		1	1	1		1		1	2	1	1	1	40
Mixed Cell Focus		X						X	X	X		X				X	X	X	X						18
Bile Duct, Fibrosis			1	1	1		1	1	1		1	1				1			1				1	1	21
Bile Duct, Hyperplasia			2	2	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1			1	1	40
Hepatocyte, Necrosis																									2
Mesentery																									7
Fat, Necrosis																									7
Pancreas																									50
Basophilic Focus																									1
Cyst																									2
Infiltration Cellular, Mononuclear Cell																									16
Acinus, Atrophy																									21
Acinus, Hyperplasia																									2
Salivary Glands																									50
Stomach, Forestomach																									50
Erosion																									1
Inflammation																									1
Stomach, Glandular																									50
Erosion																									1
Tooth																									1
Peridontal Tissue, Inflammation																									3

CARDIOVASCULAR SYSTEM

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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																				* TOTALS					
	03737	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228		077228				
ANIMAL ID	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy	1	2	1	2	2	1	1	2	2	1	1	1		1	1	2		2	1	1	2	2	2	1	46	
Pigmentation	1																								1.4	
																									1.0	
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis					2					1	2		1		1								1		13	
Hyperplasia				1		2	1	1					1		2				2	1				1	17	
Hypertrophy					2	1													2	2					9	
Vacuolization Cytoplasmic	1		3	1		2	1				2	1	2	2	1	2		1	1	2	1	1	1	1	31	
																									1.5	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia											1		1	1		1		1	2			3		1	18	
																									1.5	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																									1	
																									1.0	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	49	
Hyperplasia, Focal											2														2	
Hyperplasia, Diffuse																									2.0	
																									1.0	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																									1	
Pars Distalis, Hemorrhage																							3		1	
Pars Distalis, Hyperplasia			3	1		4							2		3		3							1	15	
																									2.3	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																				* TOTALS		
	037	078	079	077	077	077	077	077	077	077	077	077	077	077	077	077	077	077	077	077		077	077
ANIMAL ID	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia			3				2			3		2	3			1	3		3	2			17 2.5
Necrosis																						2	1 2.0
Lymph Node																							4
Deep Cervical, Hyperplasia, Plasma Cell																							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	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia, Lymphoid																							2 2.0
Infiltration Cellular, Histiocyte		1				1		1		1		1		1				2	2	1	1		21 1.1
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Congestion																							1 2.0
Hematopoietic Cell Proliferation		1	1	1		1		1	1	1	1		1	1			1		1	1		1	34 1.0
Pigmentation		1		1	1	1		1	1	1	1		1	1			1		1	1	2	1	36 1.1
Capsule, Fibrosis																							1 2.0
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy	3	2	2	2	3	2	3	3	2	3	2			2		3	3	3	4	4	2	3	44 2.8

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

MUSCULOSKELETAL SYSTEM

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

DAY ON TEST	FISCHER 344 RATS MALE																				* TOTALS						
	03737	07228	07728	07728	07728	07728	07728	07728	07728	07728	07728	07728	07728	07728	07728	07728	07728	07728	07728	07728		07728					
ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050		
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Demyelination																								2	1 2.0		
Hemorrhage																								2	1 2.0		
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation	2				1																				2	2 1.5	
Alveolar Epithelium, Hyperplasia	2										2				4	3									8	2.8	
Alveolus, Infiltration Cellular, Histiocyte						1		1	1			2					1								14	1.1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Foreign Body			X				X				X	X	X	X			X	X							13		
Inflammation		1	2			1	1				1	2		1	1	1		3	2		1	2	1	1	2	35	1.4
Glands, Respiratory Epithelium, Dilatation					1				1									1					1		13	1.0	
Glands, Respiratory Epithelium, Metaplasia, Respiratory			1		1				1	1	1		1		1			1	1	1		1	1	1	29	1.0	
Olfactory Epithelium, Accumulation, Hyaline Droplet		2	1	1	2	2	2	1	3	2	2	3	2	3	3	2	2	2	1	2	2	3	1	2	3	49	2.1
Olfactory Epithelium, Metaplasia, Respiratory						1										1		1							4	1.0	
Respiratory Epithelium, Accumulation, Hyaline Droplet		2			1	2	1		2	1	2	3	2	2	2	1	1	2		1	1	1		2	3	42	1.5
Respiratory Epithelium, Hyperplasia							1					1		1				2	1		1	1		1	1	15	1.2
Transitional Epithelium, Hyperplasia																		2							1	2.0	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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

DAY ON TEST	FISCHER 344 RATS MALE																								* TOTALS
	03737	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	077228	
ANIMAL ID	0026	0007	0008	0009	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020

Inflammation 1 1 3 1.3

SPECIAL SENSES SYSTEM

Eye	+																								50	
Cornea, Inflammation	2																								1	2.0
Harderian Gland	+																								50	
Inflammation	1																								3	1.3
Zymbal's Gland	M +																								49	
Hyperplasia	4																								1	4.0

URINARY SYSTEM

Kidney	+																								50	
Accumulation, Hyaline Droplet																									2	2.0
Mineralization	1 1																								44	1.0
Nephropathy	1 1 1 1 2 1 1 1 1 1 2 2 2 1 2 1 1 1 1 2 1 1 2 1 4																								49	1.4
Pigmentation	1 1																								24	1.2
Pelvis, Transitional Epithelium, Hyperplasia																									1	2.0
Urinary Bladder	+																								50	

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 Lab: BAT

FISCHER 344 RATS MALE 6 MG/KG	DAY ON TEST																									ANIMAL ID	males (cont...)
	0729	0729	0728	0728	0729	0721	0724	0722	0722	0727	0727	0728	0728	0729	0729	0727	0727	0728	0728	0722	0725	0725	0727	0727	0728		
	0	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	
	0	0	0	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	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	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	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	
	0	0	0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0	0	0	00075	

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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus			X					X												X				
Clear Cell Focus	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X					X
Degeneration, Cystic	1			1							1	1											2	2
Eosinophilic Focus			X				X				X	X	X	X	X	X	X	X						X
Fatty Change, Focal																								1
Fatty Change, Diffuse				1	1															1	1	1		
Hepatodiaphragmatic Nodule										X														
Inflammation	1	1	1	1	1	1		2	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				
Vacuolization Cytoplasmic																						2		
Bile Duct, Cyst																								

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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. 20107 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine

CAS Number: 99-97-8

Date Report Requested: 02/28/2011

Time Report Requested: 11:17:44

First Dose M/F: 10/20/04 / 10/21/04

Lab: BAT

FISCHER 344 RATS MALE 6 MG/KG		DAY ON TEST																				males (cont...)					
		0 7 2 9	0 7 2 9	0 7 2 8	0 7 2 8	0 7 2 9	0 6 2 1	0 6 2 4	0 7 2 2	0 7 2 2	0 7 2 2	0 7 2 2	0 7 2 2	0 7 2 2	0 7 2 2	0 7 2 2	0 7 2 2	0 7 2 2	0 5 2 1	0 6 9 5	0 6 9 5		0 7 2 7	0 7 2 8			
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	0 0 0 7 3	0 0 0 7 4	0 0 0 7 5	
Bile Duct, Fibrosis		1	1	1		1			2			1	1	1		1	1	1		1			1	1			
Bile Duct, Hyperplasia		2	2	2	1	1		1	2	2	2	1	2	2	2	2	2	2		1	1		1	1	1	1	1
Mesentery		+							+		+					+						+					
Fat, Necrosis		3							3		3					3							3				
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																											
Hyperplasia																											
Infiltration Cellular, Mononuclear Cell		1		1			2							2		1		1				1					
Acinus, Atrophy			3	2	2		1		2	2	2	1	2	2	3	1	2	3									2
Acinus, Hyperplasia																											
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular																											
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema																											
Hyperplasia, Squamous																						1					
Inflammation							3																1				
Ulcer							3																1				
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																											
Ulcer																											
Tongue																											
Tooth																											
Peridental Tissue, Inflammation																								+	+		
																								3	1		

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+ .. Tissue examined microscopically

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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
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 Lab: BAT

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

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia	2	1		1	1	1			2			2	1		1	1	2		3	1		2		
Follicle, Cyst																								

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland																									
Inflammation																									
Epithelium, Hyperplasia																									
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atypia Cellular																						4			
Inflammation			1																						
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation	1	3	2	1	3	2	2	1	2	1	1	2	1	1	1	2	1	3	2	2	2	2	1	2	1
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation			2	2		1	2	2		1				2		2		3	1			1	2	2	
Epithelium, Hyperplasia															1										
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																									
Epithelium, Hyperplasia																									
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																								X	

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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

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

HEMATOPOIETIC SYSTEM

Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	3						3								2			2		2		3			
Lymph Node Mediastinal, Ectasia							+																		
Mediastinal, Hemorrhage							2																		
Mediastinal, Hyperplasia, Plasma Cell							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	
Lymph Node, Mesenteric Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte	1	1			1	2						1	1	1				2	1		2	1	1		
Spleen Hematopoietic Cell Proliferation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pigmentation	1	1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	
Capsule, Hemorrhage	1	1	2	2	2	1		3	1	2	2	1	1	1	1	1	3	1	2	2	2	1	1	1	
Capsule, Hypertrophy, Mesothelium							3														1				
Lymphoid Follicle, Atrophy			2																					2	
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	2	2	3	2	2	3	4	2	3	3	4	3	2	2	2	4	2	2	2	3	2	3	4	3	3

INTEGUMENTARY SYSTEM

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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		
		7	7	7	7	7	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
		2	2	2	2	2	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
		9	9	8	8	9	1	4	9	7	7	8	7	8	9	9	7	7	7	7	8	2	8		
FISCHER 344 RATS MALE																									
6 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		
		5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	males (cont...)	
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
MUSCULOSKELETAL SYSTEM																									
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
NERVOUS SYSTEM																									
Brain		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Spinal Cord																									
RESPIRATORY SYSTEM																									
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Foreign Body																									
Inflammation								2							1										
Alveolar Epithelium, Hyperplasia			2				3				3									3	3				
Alveolus, Infiltration Cellular, Histiocyte					1																		1		
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Foreign Body							X	X	X								X	X			X				
Inflammation		1		1	1	1	2	2	2	1	1	1				1	1		2	1	1		1		
Glands, Olfactory Epithelium, Hyperplasia			1			1																			
Glands, Respiratory Epithelium, Dilatation			1				1												1	1					
Glands, Respiratory Epithelium, Hyperplasia			1				2						1	1									1		
Glands, Respiratory Epithelium, Metaplasia, Respiratory		1	1	1	1	1	1		1	1	1	1				1	1	1	1	1	1	1	1		
Glands, Transitional Epithelium, Hyperplasia																									

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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

FISCHER 344 RATS MALE 6 MG/KG	DAY ON TEST																								ANIMAL ID	males (cont...)
	0 7 2 9	0 7 2 9	0 7 2 8	0 7 2 8	0 7 2 9	0 6 0 1	0 6 2 4	0 7 2 9	0 7 2 7	0 7 2 7	0 7 2 8	0 7 2 8	0 7 2 9	0 7 2 9	0 7 2 7	0 7 2 7	0 7 2 7	0 7 2 7	0 5 2	0 6 5	0 6 5	0 7 7	0 7 7			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0 0 5 1		
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Accumulation, Hyaline Droplet																								1		
Mineralization	1	1		1	1	1		1	1	1	1		1	1	1		1	1		1	1	1	1	1		
Nephropathy	1	2	2	2	2	1	3	3	2	2	2	2	3	2	2	2	2	2	3	4	2	3	2	1		
Pigmentation	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1		1	1			
Papilla, Necrosis																										
Pelvis, Inflammation																								1		
Pelvis, Transitional Epithelium, Hyperplasia																								1		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hemorrhage																										
Inflammation																										
Ulcer																										

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FISCHER 344 RATS MALE 6 MG/KG	DAY ON TEST																				* TOTALS							
	0 7 2 8	0 7 2 1	0 7 2 7	0 7 2 7	0 5 3 0	0 7 2 7	0 7 1 3	0 7 2 8	0 0 6 2	0 3 2 4	0 7 2 1	0 7 2 8	0 7 2 7	0 7 2 8	0 7 2 8	0 6 7 4	0 7 2 8	0 7 2 9	0 7 2 8	0 5 2 8		0 7 2 9	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 9	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				
Bile Duct, Fibrosis			1	1	1		1	1							1	1		1	1		1	1	1	1	27	1.0		
Bile Duct, Hyperplasia		2	1	2	2		1	1	2		1		2		2	1	1		2	2	1	2	1	2	2	42	1.5	
Mesentery Fat, Necrosis																									5	5	3.0	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Cyst				X			X											X		X					4			
Hyperplasia			3																						1	3.0		
Infiltration Cellular, Mononuclear Cell				1			1		1					2			1							2	14	1.3		
Acinus, Atrophy			2									2	2					1						3	20	2.0		
Acinus, Hyperplasia																				2			3	2	2.5			
Salivary Glands Infiltration Cellular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	1.0		
Stomach, Forestomach Edema		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	2.0		
Hyperplasia, Squamous														2										3	1.7			
Inflammation			1									1							2					5	1.6			
Ulcer																								2	2.0			
Stomach, Glandular Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	2.0		
Ulcer			2																					1	2.0			
Tongue																							+	1				
Tooth Peridontal Tissue, Inflammation																								2	2	2.0		

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DAY ON TEST	FISCHER 344 RATS MALE																								* TOTALS
	078	072	077	072	073	072	071	072	078	072	074	071	078	072	077	076	077	077	075	077	077	072	072	078	
ANIMAL ID	0076	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	0070	

CARDIOVASCULAR SYSTEM

Blood Vessel	+																								50	
Heart	+																								50	
Cardiomyopathy	1	2	1	1	2	1	1	2	1	2	2	1	1	2	1	2	1	1	1	1	1	1	1	1	50	1.3
Artery, Inflammation														2											1	2.0

ENDOCRINE SYSTEM

Adrenal Cortex	+																								50	
Angiectasis														1								1		2	9	1.2
Hyperplasia		1													2		2	1		1	1		2		21	1.6
Hypertrophy	1				2								2						1						6	1.5
Vacuolization Cytoplasmic		2		1	2	1	1			2	1	1	2	1	1	1	1	1				1			31	1.2
Adrenal Medulla	+																								50	
Hyperplasia	1				3																	2		1	15	1.9
Infiltration Cellular, Lymphocyte																									1	3.0
Islets, Pancreatic	+																								50	
Hyperplasia																									2	2.0
Parathyroid Gland	+																								49	
Cyst								M																	1	
Pituitary Gland	+																								50	
Angiectasis					2																				1	2.0
Cyst																									2	
Pars Distalis, Hyperplasia			2				2												3				3	2	18	2.2

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

FISCHER 344 RATS MALE 6 MG/KG	DAY ON TEST																				* TOTALS				
	078	071	077	072	053	072	071	077	072	070	032	077	077	077	077	077	067	077	077	057		077	077	077	
ANIMAL ID	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	
Thyroid Gland	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
C-cell, Hyperplasia	2					2						1					1		1	1					20 1.5
Follicle, Cyst			X																						1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland	+																								2	
Inflammation	4									2																2 3.0
Epithelium, Hyperplasia	3																									1 3.0
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atypia Cellular																										1 4.0
Inflammation																										1 1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation	2	1	2	2	1	2	1	1		1	1	3	1	1	2	1	2	1	2	2	1	2	1	2	1	49 1.6
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation	3	4				1	3	3				1	1	3	2	2	2	3		3		2		1		28 2.0
Epithelium, Hyperplasia		3				1						1									1			1		6 1.3
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation		3																								1 3.0
Epithelium, Hyperplasia		4																								1 4.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																										1

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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

FISCHER 344 RATS MALE 6 MG/KG	DAY ON TEST																								* TOTALS	
	078	071	077	077	053	072	077	077	077	077	077	077	077	077	077	077	077	077	077	077	077	077	077	077		
ANIMAL ID	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099		
Interstitial Cell, Hyperplasia	2		2		1		2			1		1	2					1				1			16 1.4	
HEMATOPOIETIC SYSTEM																										
Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
	2	2				3	2			2									3			3			13 2.5	
Lymph Node Mediastinal, Ectasia				+															+						3	
Mediastinal, Hemorrhage				2																					2 2.0	
Mediastinal, Hyperplasia, Plasma Cell				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	0	
Lymph Node, Mesenteric Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte				1			2		1		1		2	2		2			2			2	1	1	1 2.0 1 4.0 23 1.4	
Spleen Hematopoietic Cell Proliferation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pigmentation	1	1	1	1		1		1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	44 1.1		
Capsule, Hemorrhage	1	2	1	1	1	1	4	3	1	2	2	2	2	2	2	2	2	2	2		3	2	2	1	2	48 1.7
Capsule, Hypertrophy, Mesothelium																									1 3.0	
Lymphoid Follicle, Atrophy			2					3			2														1 1.0 5 2.2	
Thymus Atrophy	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	48	
	3	3	2		3	4	3		2	3	3	2	2	2	2	2	3		2	3	3	4	2	2	2	46 2.7

INTEGUMENTARY SYSTEM

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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

FISCHER 344 RATS MALE 6 MG/KG	DAY ON TEST																								* TOTALS	
	078	072	071	077	057	077	077	077	070	033	077	077	077	077	077	077	067	077	077	057	077	077	072			
ANIMAL ID	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099		
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Spinal Cord			+																					1		
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Foreign Body					X																			1		
Inflammation			2		2	1																		5 1.6		
Alveolar Epithelium, Hyperplasia															1			2	2		2			9 2.3		
Alveolus, Infiltration Cellular, Histiocyte																								2 1.0		
Nose	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Foreign Body	X			X				X					X	X		X	X		X	X	X			17		
Inflammation	3	1	3	3			2	2		1	2	3	3	2	1	1	2	1	3	1	1	2	1	40 1.6		
Glands, Olfactory Epithelium, Hyperplasia																								2 1.0		
Glands, Respiratory Epithelium, Dilatation		1		1		1	1		1	1		1			1	1		1					1	15 1.0		
Glands, Respiratory Epithelium, Hyperplasia		1							1															8 1.1		
Glands, Respiratory Epithelium, Metaplasia, Respiratory	1	1	1	1		1	1	1		1	1		1	1	1	1	1	1	1	1		1	1	39 1.0		
Glands, Transitional Epithelium, Hyperplasia	1																							1 1.0		

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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

DAY ON TEST	FISCHER 344 RATS MALE																				* TOTALS							
	0728	0721	0707	0707	0705	0707	0707	0707	0707	0707	0707	0707	0707	0707	0707	0707	0707	0707	0707	0707			0707					
ANIMAL ID	6 MG/KG																				* TOTALS							
00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096			00097	00098	00099	00100		
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	3	2		2		1			2	2	1	2	2	2	3	2	2	2	2	1	2	3	2	44	2.0	
Olfactory Epithelium, Hyperplasia, Basal Cell								1																		1	1.0	
Olfactory Epithelium, Metaplasia, Respiratory			2	2								1	1				2	1	1							9	1.4	
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	1	1			1		1			1		1	1				1	1		1	2	2	1		35	1.2	
Respiratory Epithelium, Hyperplasia	1		3	3		1	2	1				1	2	2	1		1	2		2		1	2		1	29	1.5	
Squamous Epithelium, Cyst																										1		
Transitional Epithelium, Hyperplasia																										1	1.0	
Trachea Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
					2																					1	2.0	
SPECIAL SENSES SYSTEM																												
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Dysplasia								X																			1	
Inflammation																											1	2.0
Cornea, Hyperplasia																											1	2.0
Cornea, Inflammation																											1	3.0
Lens, Degeneration																											1	3.0
Retina, Atrophy																											1	3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Lymphoid																											1	3.0
Inflammation	1		1																							3	6	1.5
Zymbal's Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

URINARY SYSTEM

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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

FISCHER 344 RATS MALE 6 MG/KG	DAY ON TEST																								* TOTALS
	078	071	077	072	073	072	071	078	072	074	071	078	077	077	077	077	076	077	077	075	077	077	077		
ANIMAL ID	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098		
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accumulation, Hyaline Droplet																								1 1.0	
Mineralization				1	1	1		1		1	1	1			1	1	1	1		1	1	1	1	37 1.0	
Nephropathy	2	2	2	2	1	2	2	2		1	2	2	2	2	2	2	1	2	2	2	2	1	2	49 2.0	
Pigmentation	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	46 1.0	
Papilla, Necrosis		4						4																2 4.0	
Pelvis, Inflammation		4					2																	3 2.3	
Pelvis, Transitional Epithelium, Hyperplasia																		1						2 1.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage								3																1 3.0	
Inflammation		4					2																	2 3.0	
Ulcer		4																						1 4.0	

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TDMS No. 20107 - 03
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 Species/Strain: RATS/F 344/N

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FISCHER 344 RATS MALE	DAY ON TEST																								ANIMAL ID	males (cont...)
	078	078	059	077	053	077	077	077	077	077	077	077	066	066	066	077	077	077	066	077	066	055	077	077		
20 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		
	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			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3			

Dysplasia
 Peridental Tissue, Inflammation

2 X

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	1	2	1	1	2	1	1	2	1	2	1	2	1	1	1	2	1	1	1	1	2	1	2
Thrombosis																						3	2

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis						1																	1
Hyperplasia								2		1	1					1							2
Hypertrophy			2					2	2							2							
Vacuolization Cytoplasmic			2					2	2	1	2	1	1			1	1		1				1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia							1	2				3	1			2					1	1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																							
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Diffuse																							
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																							
Pars Distalis, Cyst																							X

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TDMS No. 20107 - 03
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DAY ON TEST	FISCHER 344 RATS MALE																									ANIMAL ID	males (cont...)
	078	078	059	077	053	072	072	072	072	072	072	066	066	066	072	072	072	066	072	072	066	057	072	072			
20 MG/KG	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Congestion																											
Inflammation		2							2				2					2	1								
Alveolar Epithelium, Hyperplasia								2	4			2							2								
Alveolus, Foreign Body																											
Alveolus, Infiltration Cellular, Histiocyte		1																								1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body								X					X			X									X	X	
Inflammation	1	1	1	1	1	1	1	2	1	1	1	2		1	1	1	1		1	1		2	2	2	1		
Glands, Olfactory Epithelium, Dilatation								1		1																	
Glands, Respiratory Epithelium, Dilatation			1	1					1						1	1	1			1	1	1	1				
Glands, Respiratory Epithelium, Hyperplasia				1									1					2									
Glands, Respiratory Epithelium, Metaplasia, Respiratory	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1			1	1	1	1	1	1	1	
Glands, Transitional Epithelium, Dilatation											1					2											
Glands, Transitional Epithelium, Hyperplasia		1	2		1			1		1			1		1				1	1	1		2	1	1		
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2	1	2		2	2	1	2	2	3	2	1	3	1	3	1	3	2		2	2	2	2	1	1	

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 2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

FISCHER 344 RATS MALE	DAY ON TEST	078	078	059	077	057	077	077	077	077	077	077	066	066	066	077	077	077	066	077	077	066	057	077	077	males (cont...)
	20 MG/KG	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	
	ANIMAL ID	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	010	

Urinary Bladder
 Inflammation

+ +

* .. 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. 20107 - 03
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|
| | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 02 | 07 | 01 | 06 | 06 | 01 | 07 | 07 | 02 | 07 | | 07 | 06 | 07 |
| 20 MG/KG | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| ANIMAL ID | 01 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |
| | 67 | 78 | 88 | 95 | 09 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Clear Cell Focus | X | X | X | | X | | X | | | | | X | | | | | | | X | X | X | | X | 26 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 9 1.3 |
| Eosinophilic Focus | | | | | X | X | X | X | X | | | | | | X | X | | | X | X | X | | | 21 |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Fatty Change, Diffuse | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | 5 1.6 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 42 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. 20107 - 03
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 Species/Strain: RATS/F 344/N

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 Lab: BAT

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

Dysplasia 1
 Periodontal Tissue, Inflammation 1 2.0

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|---|---|--------|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Cardiomyopathy | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 49 1.4 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|--|---|---|---|--------|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Angiectasis | 1 | | 1 | 1 | | | | | | | | | | | 2 | | | | | | 1 | | | | | 7 1.1 |
| Hyperplasia | | 2 | | | | | | | | 1 | | | | 2 | | | 1 | 1 | | | | | | | | 10 1.4 |
| Hypertrophy | | | | | | | | | | | 1 | | | | | | | | | | | | 1 | | | 6 1.7 |
| Vacuolization Cytoplasmic | | | | 1 | | 1 | 2 | 2 | 1 | | | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | | | | 2 | 1 | 1 | 26 1.3 |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Hyperplasia | | | | | | 1 | 1 | 2 | 2 | | | | | | | | | 3 | | | | | | | | 12 1.7 |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | 45 | | | | | |
| Hyperplasia, Diffuse | | M | | M | M | M | | | | | | M | | | | | | | | | | | | | | 2 2.5 |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pars Distalis, Cyst | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 A .. Autolysis precludes evaluation
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TDMS No. 20107 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

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 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|-----|--|
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7 | 0
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2 | 0
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7 | 0
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8 | 0
6
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6 | 0
6
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3 | 0
1
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9 | 0
7
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8 | 0
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7 | 0
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| ANIMAL ID | 0
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7 | 0
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8 | 0
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3
9 | 0
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0 | 0
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4
2 | 0
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4
3 | 0
0
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4 | 0
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5 | 0
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4
6 | 0
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1
4
7 | 0
0
1
4
8 | 0
0
1
4
9 | 0
0
1
5
0 | | | |
| Pars Distalis, Hyperplasia | 3 | 2 | | | | | 2 | 3 | | | 2 | | | 3 | | | | | 2 | | | | | | | 15 | 2.3 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | 1 | | 1 | | | 2 | 1 | 1 | | | | | | | | | | | 1 | 1 | | | | | 2 | 14 | 1.3 | |
| Follicular Cell, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1.5 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | | 1 | | 1 | 1 | | | 1 | | 2 | 2 | 3 | 1 | 1 | 1 | 43 | 1.4 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | 1 | | 4 | 2 | | 3 | | | | | | | | | 2 | | | 2 | | | | | 18 | 1.6 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 2 | | | | | | | | 2 | 2.0 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Mineralization | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Interstitial Cell, Hyperplasia | | | | 2 | | | 2 | | | | | | | | | | | 1 | | | | | | 2 | 3 | 6 | 1.8 | |

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
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20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 07
27 | 07
28 | 07
28 | 06
45 | 07
29 | 07
29 | 07
29 | 07
29 | 06
08 | 07
08 | 07
08 | 07
08 | 07
08 | 06
08 | 07
08 | 07
08 | 06
08 | 06
08 | 07
08 | 07
08 | | 06
08 | 07
08 |
| ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia | | 2 | 2 | 2 | 2 | | 2 | | | 2 | 2 | 2 | | | | 3 | | | 3 | 2 | | 2 | 3 3 2 |
| Myelofibrosis | | | | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | 3 | | | | | | | 2 2.5 |
| 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 | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Histiocyte | 1 | 2 | 1 | 1 | 1 | | 1 | | | | 1 | 1 | | | | 1 | | | 2 | 1 | 2 | | 30 1.3 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hematopoietic Cell Proliferation | 2 | 1 | 1 | 1 | 2 | | 2 | | | | 1 | 2 | 1 | 1 | 1 | 3 | | | 1 | 1 | 1 | 1 | 42 1.5 |
| Pigmentation | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | | 2 | 2 | 2 | 1 1 2 2 | 47 2.1 |
| Capsule, Fibrosis | | | | | | | 1 | | | | | | | | | | | | | | | 2 | 2 1.5 |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | 1 | | | | | | | | | | | | 2 1.5 |
| Red Pulp, Atrophy | 3 | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Thymus | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | 2 | 2 | 3 | | 3 | | 2 | 3 | 3 | 4 | 3 | 2 | | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 44 2.5 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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 CAS Number: 99-97-8

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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
| | 0
5
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8 | 0
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9 | 0
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4 | 0
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6 | 0
7
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6 | 0
5
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 | 00115511 | males
(cont...) |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 00115511 | | |
| Pars Distalis, Hyperplasia | 1 | | 3 | | 2 | | 3 | | | 2 | | | | 1 | | 2 | | | | | | 3 | 1 | | | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|---|--|
| Epididymis
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Preputial Gland
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Inflammation | 2 | | | 2 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | |
| Prostate
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Pigmentation | | | | | | | | | | | | | | | 3 | 2 | | 3 | 2 | | 1 | | | 2 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Seminal Vesicle
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3
3 | | |
| Testes
Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
| | 0
5
8
2 | 0
6
2
6 | 0
7
2
7 | 0
7
2
9 | 0
7
2
7 | 0
6
9
9 | 0
6
5
6 | 0
7
2
8 | 0
7
2
9 | 0
6
8
5 | 0
3
8
4 | 0
7
2
8 | 0
6
6
9 | 0
4
1
2 | 0
7
2
8 | 0
7
2
8 | 0
6
2
8 | 0
6
1
4 | 0
5
7
6 | 0
4
2
6 | 0
7
1
9 | 0
6
2
8 | 0
6
1
6 | 0
5
1
0 | | |
| 60 MG/KG | 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 | 0
0
1
7
5 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | 2 | | 3 | | | | | | | | | | | 2 | | 2 | | | | | | | |
| Hyperplasia | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 4 | 2 | 2 | | | |
| Lymph Node | | | | | + | | + | | | | | | | | + | | + | | | | | | | | + | |
| Mediastinal, Ectasia | | | | 3 | | | | | | | | | | | | | | | | | | | | | 3 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | 2 | | | | | | | | | | 3 | | | | | | | | |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | 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 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | 1 | 2 | 2 | | | | 2 | 2 | | | | 2 | 3 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | 1 | | 2 | 2 | 2 | | | 2 | 2 | | | | 2 | 3 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | | |
| Hematopoietic Cell Proliferation | 1 | | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | |
| Inflammation, Suppurative | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 3 | 1 | 2 | 2 | 3 | | 2 | 2 | |
| Capsule, Fibrosis | 1 | | | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | |
| Capsule, Hypertrophy, Mesothelium | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | | | 1 | 1 | | 1 | 2 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | 2 | | | 2 | 2 | | 2 | 2 | | | 2 | 2 |
| Red Pulp, Atrophy | | | | | | | | | | | | | | 3 | | | 3 | | | | | | 3 | | 2 | |
| Thymus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | |

* .. 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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 A .. Autolysis precludes evaluation
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TDMS No. 20107 - 03
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | 0723 | 0729 | 0664 | 0728 | 0778 | 0471 | 0717 | 0177 | 0773 | 0076 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | | 0077 |
| 60 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 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Periesophageal Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Clear Cell Focus | | X | | X | X | X | X | | | X | X | X | X | X | X | X | | | X | X | | X | | X | 35 | | |
| Degeneration, Cystic | 1 | 2 | | | | | | | | 2 | | | 1 | 2 | | | | | | 1 | | | | | 17 | 1.3 | |
| Eosinophilic Focus | | X | X | | | X | | | | | | X | X | X | | | | | X | X | | X | | | 29 | | |
| Fatty Change, Focal | 1 | | 1 | | 1 | 2 | | | | | | | | | | | | | | 1 | | 1 | | 1 | 9 | 1.2 | |
| Fatty Change, Diffuse | | | | | | | | | | 2 | | | | | | | | | | 3 | 1 | | | | 5 | 2.0 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Hepatodiaphragmatic Nodule | | | | | | | X | | | | X | | | | | | | | | | | | | | 3 | | |
| Inflammation | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 44 | 1.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 1-4 .. Lesion qualified as:
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| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 0723 | 0729 | 0645 | 0728 | 0778 | 0471 | 0774 | 0177 | 0773 | 0776 | 0377 | 0767 | 0777 | 0777 | 0777 | 0777 | 0676 | 0666 | 0666 | 0772 | 0662 | 0775 | 0778 | 0668 | 0668 | |
| ANIMAL ID | 001766 | 001767 | 001768 | 001769 | 001770 | 001771 | 001772 | 001773 | 001774 | 001775 | 001776 | 001777 | 001778 | 001779 | 001780 | 001781 | 001782 | 001783 | 001784 | 001785 | 001786 | 001787 | 001788 | 001789 | 001790 | |
| Mixed Cell Focus | X | | X | X | X | X | X | | X | | X | X | X | X | X | | | X | X | X | X | | X | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Fibrosis | 2 | 2 | | 2 | 2 | | 1 | | 1 | 3 | | 2 | | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | | |
| Bile Duct, Hyperplasia | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 1 | 2 | | 2 | 3 | 2 | 2 | 1 | | 2 | 2 | 1 | 1 | 1 | 1 | |
| Hepatocyte, Hypertrophy | | | | 1 | 1 | | 1 | | 2 | 1 | | 2 | | 1 | 2 | 2 | 1 | | | 2 | 1 | 2 | 3 | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | X | | | | | | | | | | | | | | | 2 | |
| Infiltration Cellular, Mononuclear Cell | 1 | | | 1 | 2 | 2 | | | 2 | 1 | | | | | | | 1 | | | | 1 | 1 | | | 20 | |
| Metaplasia, Hepatocyte | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Acinus, Atrophy | | 3 | | 1 | | | | | | | | 2 | | 1 | | 2 | | | | | | | 2 | | 12 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Squamous | | | | | | | | | 2 | 3 | | | | | | | 2 | 2 | | | | | 3 | | 11 | |
| Inflammation | | | | | | | | | 3 | 3 | | | | | | | 3 | 2 | | | | | 3 | | 7 | |
| Ulcer | | | | | | | | | 3 | 2 | | | | | | | 3 | 2 | | | | | 1 | | 6 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Necrosis | | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 CAS Number: 99-97-8

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 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|
| | 0723 | 0729 | 0645 | 0728 | 0778 | 0431 | 0722 | 0198 | 0724 | 0774 | 0328 | 0768 | 0777 | 0777 | 0777 | 0662 | 0667 | 0662 | 0728 | 0653 | | 0728 | 0665 | 0668 |
| 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 | 50 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|----|-----|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Aorta, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Cardiomyopathy | 1 | 1 | 1 | 2 | 2 | 1 | | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 48 | 1.4 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | | |
| Pericardium, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|--|---|---|---|---|--|---|---|--|---|---|--|---|---|---|---|----|-----|-----|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 8 | 1.5 | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | 7 | 1.3 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Vacuolization Cytoplasmic | 3 | 1 | 3 | 1 | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | | 2 | 1 | | 2 | 2 | | 2 | 1 | 1 | 1 | | 28 | 1.5 |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 18 | 1.6 | |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | 48 | | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | 5 | 2.0 | |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

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

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0723 | 0729 | 0645 | 0728 | 0778 | 0471 | 0771 | 0177 | 0773 | 0077 | 0073 | 0076 | 0077 | 0077 | 0077 | 0066 | 0066 | 0066 | 0072 | 0067 | | | 0067 | 0066 |
| ANIMAL ID | 00176 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 |
| Pars Distalis, Hyperplasia | 1 | 2 | 2 | 2 | | | 1 | 2 | | | | | | | 2 | | | 2 | | | | 2 | | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 2 | | | | | | | | | | | 1 | | | | | | | 3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | 2 | | | | | | | | | | | | | | | | | | 1 | |
| Preputial Gland
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 1 | 1 | 1 | 2 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| Prostate
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation | | | | 1 | | | 1 | | 3 | | | | | 1 | | 3 | | | 1 | | 2 | 2 | 2 | 1 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | 2 | | | | |
| Seminal Vesicle
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes
Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Interstitial Cell, Hyperplasia | 1 | | 1 | | 2 | | | | 1 | | | | | | | | 2 | | | 2 | | 1 | 1 | |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DAY ON TEST | | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 1 | 7 | 7 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| FISCHER 344 RATS MALE | | 2 | 2 | 4 | 2 | 2 | 3 | 2 | 9 | 2 | 2 | 4 | 2 | 0 | 2 | 2 | 2 | 2 | 1 | 7 | 2 | 2 | 2 | 1 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 60 MG/KG | | 3 | 9 | 5 | 8 | 8 | 1 | 8 | 2 | 4 | 4 | 8 | 8 | 1 | 7 | 7 | 7 | 7 | 2 | 1 | 7 | 2 | 1 | 7 | 2 | 1 | 7 | 2 | 1 | 7 | 2 | 1 | 7 | 2 | 1 | 7 | 2 | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 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 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.3 | | |
| Hyperplasia | 2 | 3 | 4 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | | | | | | | | | | | 50 | 2.7 | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.7 | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 2.3 | |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Infiltration Cellular, Histiocyte | 2 | 2 | | 2 | 2 | | 2 | 1 | | 2 | | 2 | | 2 | 2 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | 34 | 1.5 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Congestion | 2 | 2 | 1 | 2 | 1 | 1 | 2 | | 2 | 3 | 2 | 2 | 2 | 1 | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | 39 | 1.9 |
| Hematopoietic Cell Proliferation | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | 44 | 1.3 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Pigmentation | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 3 | 3 | 3 | 2 | | | | | | | | | | | | | | | | 48 | 2.0 | |
| Capsule, Fibrosis | 2 | 1 | 1 | 1 | 2 | | 2 | 1 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | | | | | | | | | | | | | | | | 46 | 1.8 | |
| Capsule, Hypertrophy, Mesothelium | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | 39 | 1.1 | |
| Lymphoid Follicle, Atrophy | | | | 3 | 1 | | 2 | | 2 | 3 | 2 | | | | | | 1 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | 19 | 2.0 |
| Red Pulp, Atrophy | | | | | | | 2 | | | | | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 2.6 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |

* .. 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----|-----|-----|
| | 0723 | 0729 | 0735 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | | | 0778 | | | | | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 00200 | | | |
| Atrophy | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 2 | | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 44 | 2.5 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 |
| Skin Cyst Epithelial Inclusion Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 2.7 |
| Lung Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Lung Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Lung Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 6 | 2.8 |
| Lung Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 11 | 1.1 |
| Lung Alveolus, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|
| | 0723 | 0729 | 0735 | 0742 | 0748 | 0754 | 0761 | 0767 | 0773 | 0779 | 0785 | 0791 | 0797 | 0803 | 0809 | 0815 | 0821 | 0827 | 0833 | 0839 | 0845 | 0851 | 0857 | 0863 | | 0869 | |
| ANIMAL ID | 001766 | 001767 | 001768 | 001769 | 001770 | 001771 | 001772 | 001773 | 001774 | 001775 | 001776 | 001777 | 001778 | 001779 | 001780 | 001781 | 001782 | 001783 | 001784 | 001785 | 001786 | 001787 | 001788 | 001789 | 001790 | | |
| Foreign Body | X | | | | X | | | | | | | | | | | | | | | | | | | | | 9 | |
| Inflammation | 3 | 3 | 3 | 2 | 2 | 2 | 1 | | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 1 | 48 1.9 | |
| Glands, Olfactory Epithelium, Dilatation | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 1 | 3 | 3 | 1 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 49 2.4 | | |
| Glands, Olfactory Epithelium, Hyperplasia | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 48 1.9 | |
| Glands, Olfactory Epithelium, Metaplasia | 1 | 1 | | 2 | 2 | | 1 | | 1 | 1 | | 2 | 1 | 1 | 2 | 1 | 2 | | 1 | 2 | | | 1 | | 38 1.5 | | |
| Glands, Olfactory Epithelium, Necrosis | 3 | | 3 | | | 3 | | | 3 | 3 | 2 | | 3 | | | | | 2 | 3 | 3 | | 3 | | | 2 | 22 2.7 | |
| Glands, Respiratory Epithelium, Dilatation | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 48 1.6 | |
| Glands, Respiratory Epithelium, Hyperplasia | 2 | 2 | 1 | 2 | 1 | | 2 | | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 41 1.7 | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 3 | 3 | 3 | 3 | 2 | 2 | 3 | | 3 | 2 | | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 47 2.6 | |
| Glands, Transitional Epithelium, Dilatation | | | | | | | | | | | | 2 | | | | 2 | | | | | | | | | | 3 1.7 | |
| Glands, Transitional Epithelium, Hyperplasia | 1 | 1 | 2 | | | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 40 1.6 | |
| Nerve, Atrophy | | | | 1 | 1 | | | | | 2 | | | | | 1 | | | | | 2 | | | 1 | | | 15 1.3 | |
| Olfactory Epithelium, Degeneration | 2 | 3 | 3 | 2 | 2 | 2 | 1 | | 3 | 2 | | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 1 | 47 2.1 | | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 1 | | 2 | 1 | 1 | 2 | | 1 | 2 | 1 | 1 | 1 | 1 | | | | | 2 | 2 | 1 | 1 | | 1 | 2 | 1 | 38 1.3 | |
| Olfactory Epithelium, Metaplasia, Respiratory | 2 | 3 | 2 | 2 | 2 | | | | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 2 | 1 | 40 1.3 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | 1 | | | | | | 1 | | 1 | 1 | | | | | | | | | | 8 1.0 | |
| Respiratory Epithelium, Hyperplasia | 1 | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 49 1.6 | |
| Respiratory Epithelium, Ulcer | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Transitional Epithelium, Hyperplasia | 2 | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | | 2 | 1 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 46 1.7 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 1.7 | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Peritracheal Tissue, Inflammation | | | | | | | | | 3 | | | | | | | | | | | | | | | | | 2 3.0 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lens, Degeneration | 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

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TDMS No. 20107 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
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 Lab: BAT

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------------|--|
| | 0723 | 0729 | 0735 | 0741 | 0747 | 0753 | 0759 | 0805 | 0811 | 0817 | 0823 | 0829 | 0835 | 0841 | 0847 | 0853 | 0859 | 0905 | 0911 | 0917 | 0923 | 0929 | 0935 | 0941 | | 0947 | |
| ANIMAL ID | 001766 | 001767 | 001768 | 001769 | 001770 | 001771 | 001772 | 001773 | 001774 | 001775 | 001776 | 001777 | 001778 | 001779 | 001780 | 001781 | 001782 | 001783 | 001784 | 001785 | 001786 | 001787 | 001788 | 001789 | 001790 | | |
| Retina, Atrophy | 3 | | | | | | | | | 2 | | | | | | | | | | | | | | | | 3 2.3 | |
| Harderian Gland Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
10 1.3 | |
| Zymbal's Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | |
| Mineralization | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 49 1.1 | | |
| Nephropathy | 2 | 4 | 3 | 4 | 3 | 2 | 3 | 1 | 4 | 4 | 1 | 4 | 2 | 2 | 2 | 4 | 2 | 1 | 2 | 2 | 3 | 2 | 4 | 4 | 2 | 49 2.7 | |
| Pigmentation | | | 2 | 1 | 2 | 2 | 1 | 2 | | 1 | 1 | | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 44 1.6 | |
| Pelvis, Dilatation | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Pelvis, Transitional Epithelium, Hyperplasia | 1 | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | 5 1.0 | | |
| Ureter Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1
1 2.0 | |
| Urinary Bladder Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 3.0 | |
| Urinary Bladder Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Urinary Bladder Transitional Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |

*** 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. 20107 - 03
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 Species/Strain: RATS/F 344/N

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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|
| | 07
28 | 07
29 | 06
46 | 06
87 | 06
73 | 07
30 | 07
24 | 05
47 | 06
90 | 06
62 | 06
61 | 07
73 | 07
23 | 07
73 | 07
23 | 07
73 | 07
23 | 07
73 | 07
23 | 07
73 | 05
74 | 07
23 | 07
73 | 07
23 | 06
78 | |
| 0 MG/KG | 00
20
01 | 00
00
02 | 00
00
03 | 00
00
04 | 00
00
05 | 00
00
06 | 00
00
07 | 00
00
08 | 00
00
09 | 00
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00
01 | 00
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00
03 | 00
00
04 | 00
00
05 | 00
00
06 | 00
00
07 | 00
00
08 | 00
00
09 | 00
00
00 | 00
00
01 | 00
00
02 | 00
00
03 | 00
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00
05 | 00
00
06 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | | | | | | | | | | | | | X | X | | | | | | | | X | | | | |
| Eosinophilic Focus | | | | | X | | | | | | | X | X | X | X | | | | X | X | | | | X | | |
| Fatty Change, Focal | | | | 2 | | | | | | | | 1 | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | | | | | 2 | | | | | | 1 | | 1 | | | | | | | | | | | | 1 | 2 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Inflammation | 1 | 1 | | | 2 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | | | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| Mixed Cell Focus | | | | | | | | | | | | X | | X | | X | | | | X | | | X | X | X | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | 1 | | 1 | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | 1 | | | 2 | | | | |
| Oval Cell, 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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|--|
| Mesentery
Fat, Necrosis | | | | + | | | | 3 | | | | + | | | | 3 | | | | + | | | | 3 | | | | | | |
| Pancreas
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Fibrosis | | | | X | | | | | | | | X | | | | | | | | | | | | | | | | 2 | | |
| Infiltration Cellular, Mononuclear Cell
Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Duct, Fibrosis | | | | 1 | 1 | 1 | 1 | | | | | | | | 2 | 2 | 2 | 2 | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Stomach, Forestomach
Hyperplasia, Squamous | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Inflammation | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 | 2 | 2 | | | | |
| Ulcer | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | 2 | 3 | | | | |
| Stomach, Glandular
Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|----------------------|-----|-----|-----|
| | 078 | 079 | 066 | 067 | 068 | 073 | 072 | 054 | 066 | 066 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 057 | | | 077 | 077 | 077 |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | 2 | | 1 | 1 | 2 | 2 | 2 | | | 2 | 1 | 2 | 2 | 2 | 1 | | 2 | 2 | | 3 | | 1 | 2 | 3 | 2 |
| Degeneration, Cystic | | | 1 | | | | | | | | | | | | | | 1 | | | 3 | | | | 2 | |
| Hyperplasia | | | | | 1 | | 1 | | | | 2 | 2 | | 2 | | | | | 1 | 1 | | 2 | 2 | 2 | 1 |
| Hypertrophy | | 1 | | 1 | 1 | 3 | | | | 1 | | | | | | | | | | | 2 | | 2 | 2 | |
| Necrosis | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | 2 | 2 | 1 | 1 | 2 | 1 | | | | 1 | 1 | | | | | | | | 2 | | 2 | 2 | | 3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Diffuse | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | X | | | | X | | | | | | | | X | |
| Pars Distalis, Hyperplasia | | | | | | 4 | | | | | | | | | | | | | | 2 | | | | | 2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | 1 | 1 | | | | 2 | 2 | | | | | 1 | | 1 | 1 | 1 | 1 | | 2 | 1 | | 1 | 3 | 1 | 1 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

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. 20107 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
N,N-Dimethyl-p-toluidine
CAS Number: 99-97-8

Date Report Requested: 02/28/2011
Time Report Requested: 11:17:44
First Dose M/F: 10/20/04 / 10/21/04
Lab: BAT

| FISCHER 344 RATS FEMALE

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 | 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 | | |
| | | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | | | |
| | | 2 | 2 | 4 | 8 | 7 | 3 | 2 | 4 | 9 | 4 | 9 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 7 | 2 | 3 | 7 | 2 | 2 | 3 | 7 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | | | |
| | | 8 | 9 | 6 | 7 | 3 | 0 | 9 | 7 | 0 | 2 | 1 | 0 | 8 | 0 | 9 | 0 | 9 | 8 | 9 | 0 | 4 | 8 | 8 | 9 | 0 | 4 | 8 | 9 | 0 | 4 | 8 | 9 | 0 | 4 | 8 | 9 | 0 | 4 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | | |
| | | 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 | 1 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | 2 | | | | 1 | 1 | 1 | | | | 1 | 2 | 1 | 1 | 2 | 2 | | 2 | 2 | 1 | 1 | | 1 | | 1 | | | | | | 1 | | | | | | | | | |
| Necrosis | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | 3 | 3 | 1 | 2 | 2 | 2 | 1 | | | | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | | | | | | | | | | |
| Capsule, Fibrosis | | | | | | | | | | 1 | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | | | | 2 | | | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | | | | | | | | 4 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | X | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | 1 | 1 | | 1 | | | | | | | | | | | | 1 | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|----------------------|
| | 0728 | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | | |
| 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000000000000000000000000 | 1 |

Inflammation 1
 Metaplasia, Squamous
 Alveolar Epithelium, Hyperplasia 1
 Alveolus, Infiltration Cellular, Histiocyte 1 1 1 1 1

Nose +
 Foreign Body X X
 Inflammation 1 1 1 1 1 1 1 1 1 1 2 1
 Glands, Respiratory Epithelium, Dilatation 1 1
 Glands, Respiratory Epithelium, Hyperplasia 1 2 1 1
 Glands, Respiratory Epithelium, Metaplasia, Respiratory 1 1 1 1 1 1
 Nasolacrimal Duct, Inflammation 3
 Olfactory Epithelium, Accumulation, Hyaline Droplet 1 1 2 2 2 2 2 2 2 1 2 3 2 1 1 2 2 2 3 1 4 2 1
 Olfactory Epithelium, Metaplasia, Respiratory 1
 Respiratory Epithelium, Accumulation, Hyaline Droplet 1 1 1 1 2 2 2 1 1 1 2 2 1 1 1 3 1 3 2 2 1
 Respiratory Epithelium, Hyperplasia 1 1 1 1 1 1

Trachea +

SPECIAL SENSES SYSTEM

Ear +

Eye +
 Cataract 3
 Ciliary Body, Cornea, Inflammation
 Retina, Atrophy 4

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accumulation, Hyaline Droplet | | 1 | | 1 | 1 | | 1 | | | | 1 | | 1 | | 1 | | 1 | 1 | | 1 | 1 | 2 | 1 | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | 1 | 1 | 1 | 1 | 1 | | | 2 | | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | 1 | | 1 |
| Nephropathy | 1 | 1 | | | 1 | | | | | | 1 | | | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 3 |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | |
| Papilla, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 |
| 0 MG/KG | 0022 | 0022 | 0022 | 0022 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | X | + | 50
4 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 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 | X | 46 |
| Clear Cell Focus | X | | | X | | X | | | | | | | | | | | | | X | | | | | | | 7 |
| Eosinophilic Focus | X | | X | | X | X | X | | | | | | | X | | X | | | | | X | | | X | | 18 |
| Fatty Change, Focal | 1 | | | | | | | | | | | | | 1 | 1 | | | | | | | | | 1 | | 8 1.4 |
| Fatty Change, Diffuse | | | | | | | | | 1 | 2 | | | | | | | 2 | | | | | 2 | | | | 9 1.6 |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | X | | | 3 |
| Inflammation | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 2 | | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 38 1.1 |
| Mixed Cell Focus | X | | | | X | | | | X | | | | | | | X | X | | | X | | | X | | | 14 |
| Bile Duct, Fibrosis | 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | 1 | | | | 6 1.2 |
| Bile Duct, Hyperplasia | 1 | 3 | | | 1 | | 1 | | | | | | | 2 | | | | | 2 | 1 | | | | | | 10 1.6 |
| Oval Cell, Hyperplasia | | | 2 | | | | | | | | | | | 2 | | | | | | | | | | | | 2 2.0 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|--|
| | 0730 | 0739 | 0738 | 0722 | 0722 | 0723 | 0733 | 0733 | 0728 | 0725 | 0711 | 0709 | 0700 | 0703 | 0700 | 0706 | 0707 | 0707 | 0706 | 0706 | 0707 | 0707 | 0707 | 0707 | | | |
| ANIMAL ID | 002226 | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 | 00026 | 00027 | 00028 | 00029 | | | |
| Mesentery
Fat, Necrosis | | | | | | | | + | | | | | | | + | | | | | + | + | | | | + | 8 | |
| | | | | | | | | 3 | | | | | | | 3 | | | | | | 3 | 3 | | | | 8 3.0 | |
| Pancreas
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | X | | | 5 | |
| Infiltration Cellular, Mononuclear Cell
Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 13 1.5 | |
| Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 14 1.4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach
Hyperplasia, Squamous
Inflammation
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.4 | |
| Stomach, Glandular
Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart
Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 1 | | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 36 1.1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 20107 - 03
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 Species/Strain: RATS/F 344/N

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 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
7
3
0 | 0
7
2
9 | 0
7
2
8 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
7
2
8 | 0
7
4
5 | 0
7
0
1 | 0
7
2
9 | 0
7
3
0 | 0
7
0
1 | 0
6
7
3 | 0
7
2
0 | 0
7
6
0 | 0
6
8
5 | 0
7
3
5 | 0
6
2
0 | 0
7
3
1 | 0
7
2
9 | 0
7
2
8 | 0
7
2
9 | | |
| ANIMAL ID | 0
0
2
2
6 | 0
0
2
2
7 | 0
0
2
2
8 | 0
0
2
2
9 | 0
0
2
3
0 | 0
0
2
3
1 | 0
0
2
3
2 | 0
0
2
3
3 | 0
0
2
3
4 | 0
0
2
3
5 | 0
0
2
3
6 | 0
0
2
3
7 | 0
0
2
3
8 | 0
0
2
3
9 | 0
0
2
4
0 | 0
0
2
4
1 | 0
0
2
4
2 | 0
0
2
4
3 | 0
0
2
4
4 | 0
0
2
4
5 | 0
0
2
4
6 | 0
0
2
4
7 | 0
0
2
4
8 | 0
0
2
4
9 | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | 2 | | 1 | 2 | 2 | 2 | 1 | | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | | 2 | | 2 | 2 | | 2 | 39 1.8 | |
| Degeneration, Cystic | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | 8 2.0 | |
| Hyperplasia | | 2 | 2 | 1 | | 2 | 1 | | 2 | | 2 | | | 1 | | 1 | | 1 | | 2 | | 2 | 2 | 26 1.7 | |
| Hypertrophy | 2 | | | 1 | 4 | | | 1 | | | | | | | | | | | | | | | 2 | 11 1.7 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Vacuolization Cytoplasmic | | 2 | | | 2 | | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | | | 3 | 2 | 2 | 26 1.5 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | 4 1.5 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | X | X | | | X | | X | | X | | X | | | X | X | | | | X | | | X | | 11 | |
| Pars Distalis, Angiectasis | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Pars Distalis, Cyst | | | | X | | | | | | | | | | | | | | | | | | | | 4 | |
| Pars Distalis, Hyperplasia | 3 | 3 | | 1 | 3 | | 1 | | 2 | | 3 | 3 | | | | | | 3 | | 3 | | | 2 | 14 2.5 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| C-cell, Hyperplasia | | 2 | 2 | | | | 1 | 1 | | 1 | 2 | 1 | 2 | | 2 | 1 | | | | 2 | 3 | 1 | 3 | 29 1.5 | |
| Follicle, Cyst | | | | X | | | | | | | | | | | | | | | | | | | | 1 | |
| Follicular Cell, Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 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
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 Species/Strain: RATS/F 344/N

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 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | | | |
| ANIMAL ID | 00226 | 00227 | 00228 | 00229 | 00230 | 00231 | 00232 | 00233 | 00234 | 00235 | 00236 | 00237 | 00238 | 00239 | 00240 | 00241 | 00242 | 00243 | 00244 | 00245 | 00246 | 00247 | 00248 | 00249 | 00250 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | 3 | | | | | | 3 | | | | | | | | | | | | 11 |
| Inflammation | | | 1 | | | | 1 | 2 | | | | | | 2 | 2 | 1 | | | | | | | | | | 9 1.6 |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | X | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Uterus Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 18 2.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 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 Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 30 1.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|----------|
| | 0730 | 0739 | 0778 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | |
| ANIMAL ID | 0022 | 0022 | 0022 | 0022 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | 2 | | 1 | 2 | 2 | 2 | 1 | | 3 | | 2 | | | 1 | 2 | 1 | 2 | | 1 | 2 | | 2 | 2 | 32 1.6 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | 3 | | | | 2 3.0 | |
| Pigmentation | 2 | 1 | 3 | 3 | 2 | | 2 | 1 | 2 | | 2 | 2 | 3 | | 1 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 44 2.0 |
| Capsule, Fibrosis | | 1 | | | | | | 1 | | | | | | 2 | | | | 1 | | | 1 | | | 8 1.1 | |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Thymus | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Atrophy | 4 | | 2 | 2 | 3 | | 2 | | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 45 2.6 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | X | | | | | | | | | | | | | | | | X | | | | 4 | |
| Hyperplasia | | | | 2 | | | | | | | | | | 1 | | 1 | 2 | | | | | | | 9 1.2 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 2.0 | |

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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|----|----|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | |
| 0 MG/KG | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| ANIMAL ID | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 4 | 0 | 2 | 3 | 0 | 7 | 3 | 2 | 0 | 8 | 3 | 2 | 3 | 1 | 2 | 2 | 2 | | |
| | 0 | 9 | 8 | 9 | 9 | 0 | 0 | 8 | 5 | 1 | 9 | 0 | 1 | 3 | 0 | 9 | 0 | 5 | 0 | 5 | 0 | 3 | 1 | 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 | 0 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| Inflammation | | | | | | | | | | | | | | | | 2 | | | 1 | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | 3 | | | | | | | | | 2 | | | | 2 | | | 1 | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | 1 | | 1 | | 1 | | | | 1 | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Inflammation | 1 | | | 1 | | | 3 | 1 | | | 1 | 1 | | 2 | 2 | | 1 | | 1 | 2 | | | | 1 | 23 | | |
| Glands, Respiratory Epithelium, Dilatation | | | | | | | | | | 1 | | | | | | | | | | 1 | | 1 | | | 5 | | |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | | 6 | | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | | 1 | 1 | 1 | | | 2 | 2 | | 1 | | 1 | | | 1 | 1 | | | | 1 | | 1 | | | 17 | | |
| Nasolacrimal Duct, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 3 | 1 | 2 | 2 | 2 | | 2 | 2 | 1 | | | 2 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 43 | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | 2 | | | | | | | | | | 4 | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | 1 | 1 | | | | | 35 | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | 1 | 1 | | | | | | 1 | | | | | | | 1 | | | | 10 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cataract | | | | | | | 3 | | | | | | | | | | | | | 3 | | | | | 3 | | |
| Ciliary Body, Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | 4 | | | | | 1 | | |
| Retina, Atrophy | | | | | | | 3 | | | | | | | | | | | | | | | | | | 2 | | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0730 | 0732 | 0738 | 0739 | 0742 | 0743 | 0748 | 0750 | 0755 | 0756 | 0757 | 0758 | 0761 | 0763 | 0767 | 0769 | 0770 | 0773 | 0775 | 0777 | 0779 | 0782 | 0783 | 0788 | |
| ANIMAL ID | 0022 | 0022 | 0022 | 0022 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Harderian Gland Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 6 | 1.7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Accumulation, Hyaline Droplet | | 2 | 1 | 1 | | | | 1 | | 1 | | | 1 | 2 | | | 2 | | 1 | | | 2 | 1 | 1 | 25 | 1.2 | | |
| Infarct | | 3 | 2 | | | | | | | 3 | | | | 1 | | | | | | | | | | | 4 | 2.3 | | |
| Mineralization | 1 | 1 | 2 | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | | 1 | 1 | 1 | | | 33 | 1.1 | | |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | | | 1 | | 1 | 1 | 1 | | 1 | | 2 | | | 1 | 28 | 1.1 | | |
| Pigmentation | 1 | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | | 1 | | | 1 | 1 | 1 | 1 | 41 | 1.0 | |
| Papilla, Fibrosis | | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | 2.0 | | |
| Papilla, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Pelvis, Inflammation | | | | | | | | | | 1 | | | | 2 | | | | | | | | | | | 3 | 1.7 | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | 2 | | | 2 | | | | | | | | | | | | 2 | 2.0 | | |
| Renal Tubule, Dilatation | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|

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

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0729 | 0729 | 0729 | 0723 | 0733 | 0722 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | |
| 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 | |

Bile Duct, Fibrosis
Bile Duct, Hyperplasia

1 1

Mesentery
Fat, Necrosis

+ + 3 3 + 3 + 3

Pancreas
Cyst
Infiltration Cellular, Mononuclear Cell
Acinus, Atrophy
Duct, Inflammation, Chronic Active

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

Salivary Glands

+ +

Stomach, Forestomach
Hyperplasia, Squamous

+
1

Stomach, Glandular

+ +

Tooth
Peridontal Tissue, Inflammation

+ 1

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart
Cardiomyopathy
Endocardium, Hyperplasia

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

ENDOCRINE SYSTEM

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

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

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

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|---|---|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | | 0729 | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | | |
| Degeneration, Cystic | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia | | 1 | 1 | | 3 | 1 | 1 | 2 | 1 | | 1 | | 1 | 1 | 2 | | 2 | 3 | | | 2 | 2 | 2 | | |
| Hypertrophy | 1 | | | | | | | | | | 1 | 1 | | | 2 | | | | | 1 | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Vacuolization Cytoplasmic | 1 | 1 | 1 | | 2 | | | 1 | | | 1 | 1 | | | 2 | | | | | 1 | 2 | 1 | 2 | 1 | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | X | X | X | | X | X | X | X | | X | X | X | X | | | X | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pars Distalis, Hyperplasia | | 3 | 3 | | 2 | | 3 | | 3 | 2 | 3 | | | | 3 | 2 | | | | 4 | | | 2 | 2 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | 1 | 1 | 1 | 1 | 2 | | 3 | 2 | | | | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 2 | 1 | 2 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|--|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | |
| 6 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 Cyst | + | + | + | + | + | X | X | | X | X | | | | X | | | | | | X | | | | | |
| Hyperplasia | 2 | | | | 2 | 2 | | | 2 | | 1 | 2 | 3 | | 1 | | | | | | | | | | |
| Inflammation | 1 | 1 | | 1 | | | | | 1 | 3 | 2 | 2 | 2 | 2 | | 1 | | | | 1 | 2 | | 1 | 1 | 2 |
| Ovary Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary Cyst | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Uterus Myometrium, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 3 | | | | | | | | | | | | | | 2 | | 3 | | | | | | 2 |
| Lymph Node Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mesenteric Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | | 2 | | 1 | 1 | 1 | 1 | | 2 | 2 | 1 | | 1 | | 1 | 1 | 1 | 1 | | | 1 | | | |
| Spleen Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | 1 | 2 | | | | | 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
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 BLANK .. Not examined microscopically
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 2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------------------|
| | 07
29 | 07
29 | 07
29 | 07
29 | 07
30 | 07
30 | 07
31 | 07
31 | 07
01 | 07
01 | 07
02 | 07
02 | 07
03 | 07
03 | 07
04 | 07
04 | 07
05 | 07
05 | 07
06 | 07
06 | 07
07 | 07
07 | 07
08 | 07
08 | | |
| Hematopoietic Cell Proliferation | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | | | |
| Pigmentation | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | | |
| Capsule, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Hypertrophy, Mesothelium | 1 | 1 | | 1 | | | 1 | 1 | | | | | | | | | | | | | | 1 | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | 3 | | | | | | | | | | | 3 | | | | | | | |
| Red Pulp, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | | 3 | 3 | 2 | 2 | 2 | 2 | 2 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | 1 | | | | | 1 | | | 2 | 1 | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst Epithelial Inclusion | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | 1 | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | X | | | | X | | | | | X | |
| Inflammation | 1 | | 1 | | | 2 | 1 | 1 | | | 1 | | 1 | | 1 | 1 | | 3 | | | | | 2 | | | 1 | 1 | | | |
| Glands, Respiratory Epithelium, Dilatation | | | | | | | | | 1 | | | 1 | | | 1 | | | | | | | | | 1 | | | | 1 | | 1 |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | 1 |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 1 | | 1 | | | | 1 | | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | | | | 1 | | | | 1 | 1 | | | |
| Glands, Transitional Epithelium, Hyperplasia | 1 | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 3 | 3 | 2 | 3 | 2 | 2 | 4 | 2 | | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 3 | | | | 1 | 3 | 1 | 1 | | 1 | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | | | | | 1 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 2 | | | | | 2 | | | 2 | |
| Respiratory Epithelium, Hyperplasia | | | 1 | | | | | | | | 1 | | | | | | | | | | 2 | | | 2 | | | 1 | | 1 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | 3 | | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Retina, Atrophy | | | 3 | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Harderian Gland Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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TDMS No. 20107 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

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

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

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

| | | 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 | |
| FISCHER 344 RATS FEMALE | 6 MG/KG | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 0 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | |
| | | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 1 | 3 | 8 | 3 | 2 | 2 | 3 | 7 | 0 | 3 | 2 | 3 | 2 | 1 | 3 |
| | | 0 | 9 | 8 | 0 | 0 | 8 | 0 | 1 | 7 | 8 | 0 | 9 | 9 | 0 | 4 | 1 | 0 | 9 | 0 | 8 | 7 | 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 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | X | | | | X | | | | | | | | | | | | X | | | | | | 4 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 2 | | 4 |
| Basophilic Focus | X | X | | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 45 |
| Clear Cell Focus | X | X | X | | | X | | | | | | | X | | | | X | X | X | | | X | X | 17 |
| Eosinophilic Focus | | | X | | | | X | | | | | | | X | | X | | | X | X | | X | X | 24 |
| Fatty Change, Focal | | | | 1 | | | | | | 1 | | 1 | | 1 | | 1 | | | | 1 | | | | 13 |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | 1.2 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |
| Hepatodiaphragmatic Nodule | X | | | | | X | | | | | | | X | | | | | | X | | X | | | 6 |
| Inflammation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 46 |
| Mixed Cell Focus | | X | X | X | | X | | | | | | | X | | | | | | X | | X | | | 1.0 |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | X | | | | | | 20 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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X .. Lesion present
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TDMS No. 20107 - 03
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 CAS Number: 99-97-8

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 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|-----|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 11 | 1.0 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 21 | 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | 9 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | 9 | 3.0 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | 11 | 1.1 |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | 7 | 1.7 |
| Duct, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Peridontal Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Heart | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | 42 | 1.1 |
| Endocardium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 20107 - 03
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| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--------|
| | 0700 | 0703 | 0708 | 0713 | 0718 | 0723 | 0728 | 0733 | 0738 | 0743 | 0748 | 0753 | 0758 | 0803 | 0808 | 0813 | 0818 | 0823 | 0828 | 0833 | | 0838 | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | | 1 | 1 | 1 | | 2 | | 1 | 2 | 42 1.7 |
| Degeneration, Cystic | | | | | | | | | | | 1 | | | | | 1 | | 1 | | | | | 5 1.0 |
| Hyperplasia | 1 | 1 | 1 | | | | | | | | | 1 | | | 1 | | 2 | | | | 1 | 2 | 24 1.5 |
| Hypertrophy | | | | 1 | | | | | | | | 2 | | | | | | | 1 | 1 | | 1 | 10 1.2 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Vacuolization Cytoplasmic | | | 1 | 2 | | | | | | | | 1 | | | 1 | 1 | 2 | 2 | | 1 | 1 | 2 | 26 1.3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | 1 | 2 | | | 2 | 3 1.7 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Diffuse | 1 | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | X | | | | | X | X | | | | X | | X | | | | | | | | X | X | 20 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pars Distalis, Hyperplasia | | | | 2 | | | 2 | 2 | | | | | | 3 | | | | | | | | 3 | 17 2.6 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 47 |
| C-cell, Hyperplasia | | 3 | 2 | 1 | | + | 1 | | 1 | | 1 | | 2 | 1 | | 1 | 1 | 1 | 1 | 3 | | + | 33 1.4 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | | 1 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0700 | 0701 | 0702 | 0703 | 0704 | 0705 | 0706 | 0707 | 0708 | 0709 | 0710 | 0711 | 0712 | 0713 | 0714 | 0715 | 0716 | 0717 | 0718 | 0719 | | 0720 |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 49 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Clitoral Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 8 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | X | | 9 | 2.0 |
| Inflammation | 1 | | | 2 | | 3 | | 1 | | | | 1 | | 2 | | 1 | 2 | | 1 | 1 | | 1 | | 26 | 1.5 | |
| Ovary Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.0 |
| Cyst | | | | | | | | | | | | | | X | | | | | | | | | X | | 3 | |
| Uterus Myometrium, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 13 | 2.5 |
| Lymph Node Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | + | 1 | 1 | 2.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | |
| Lymph Node, Mesenteric Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 49 | 29 | 1.2 |
| Spleen Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 9 | 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|---|------|----|-----|-----|--|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | | 0730 | | | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | | | | | | |
| Hematopoietic Cell Proliferation | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 45 | 1.8 | | |
| Pigmentation | 1 | 2 | 3 | 2 | 2 | 2 | 1 | 3 | | 3 | 2 | 1 | 2 | 3 | 3 | 3 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 47 | 2.1 | |
| Capsule, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | |
| Capsule, Hypertrophy, Mesothelium | | 1 | 1 | 1 | | | | 1 | | | | 1 | | | 1 | | 1 | | | | 1 | | | 14 | 1.0 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | | |
| Red Pulp, Hyperplasia | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Atrophy | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 45 | 2.2 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | 1 | | | | | | | | 1 | | 1 | | | | | 1 | | 1 | | | | | | 9 | 1.1 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hemorrhage | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Hydrocephalus | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | 2.0 | |
| 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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-----|-----|
| 6 MG/KG | | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | 0730 | 0730 | | | |
| ANIMAL ID | | 00276 | 00277 | 00278 | 00279 | 00280 | 00281 | 00282 | 00283 | 00284 | 00285 | 00286 | 00287 | 00288 | 00289 | 00290 | 00291 | 00292 | 00293 | 00294 | 00295 | | 00296 | 00297 | 00298 | 00299 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | | |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | 1 | | | | 1 | | | | | | 1 | | | | | | | | | | 1 | | | 10 | 1.0 | |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 49 | | | |
| Foreign Body | | | | | | | | | | | | | | | | X | X | | | | | X | | | 8 | | | |
| Inflammation | | | | | 1 | 1 | 1 | 2 | | | | 1 | | | | 2 | 1 | 1 | | | | 1 | 3 | 2 | 24 | 1.4 | | |
| Glands, Respiratory Epithelium, Dilatation | | | | 1 | | 1 | | | | | | 1 | | | | | | | | | | 1 | 1 | | 12 | 1.0 | | |
| Glands, Respiratory Epithelium, Hyperplasia | | | 1 | | | | | 1 | | | | 1 | | | | | | | | | | | 1 | | 9 | 1.0 | | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 2 | 1 | | | 1 | | 1 | 1 | 2 | 2 | 2 | 33 | 1.1 | |
| Glands, Transitional Epithelium, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | 1 | | | 4 | 1.0 | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | 3 | 2 | | 4 | 1 | 2 | 4 | | | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 3 | | | 1 | 1 | 1 | 3 | 4 | 4 | 42 | 2.1 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | 1 | | | | 2 | 2 | | | | | 2 | | | 6 | 1.5 | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 1 | 1 | | 2 | | 2 | 2 | | | | 1 | 1 | | 1 | | | | | | 1 | 1 | | 1 | 1 | 30 | 1.2 | |
| Respiratory Epithelium, Hyperplasia | | | | | 2 | | | 2 | | | | 1 | | | | | | | | | 1 | | 1 | 2 | 1 | 13 | 1.4 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | |
| Retina, Atrophy | | | | | | | | | | | | | 3 | | | | | | | | | | | | | 3 | 3.0 | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |
| Inflammation | | | | | 3 | | | | 1 | 1 | | | | | | | | | | | | | 1 | | | 4 | 1.5 | |
| 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:
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|
| | 07030 | 07229 | 07728 | 07730 | 07732 | 07733 | 07738 | 07761 | 07760 | 07763 | 07767 | 07767 | 07767 | 07767 | 07767 | 07767 | 07767 | 07767 | 07767 | 07767 | 07767 | 07767 | 07767 | 07767 | 07767 | |
| ANIMAL ID | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accumulation, Hyaline Droplet | | 1 | 1 | 1 | | 1 | | 1 | | | | | | | 2 | 1 | 1 | | | | | 1 | 1 | | 23 1.1 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mineralization | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 35 1.0 | |
| Nephropathy | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 38 1.2 | |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 45 1.0 | |
| Pelvis, Inflammation | | | | | | | | | | | | 2 | | | | | | | | | | | | | 3 2.3 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | | | 3 1.3 | |
| 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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 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|-----------|----------------------|
| | 0
7
2
8 | 0
7
1
0 | 0
7
3
0 | 0
7
2
8 | 0
7
2
8 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
6
4
6 | 0
7
0
5 | 0
7
2
8 | 0
7
2
9 | 0
6
8
0 | 0
7
3
9 | 0
6
5
0 | 0
6
8
0 | 0
7
2
8 | 0
6
3
8 | 0
7
3
0 | 0
6
3
1 | 0
7
1
4 | 0
7
2
9 | 0
6
2
5 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
3
0
1 | 25 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | 1 | | 1 | | | | | | | | 1 | | 1 | | 1 | | | | | |
| Basophilic Focus | | | | | | | | X | | | | | | | | X | | | | | | | X | |
| Clear Cell Focus | X | | X | X | X | | X | X | | | | X | | | X | X | X | | X | | | | | X |
| Degeneration, Cystic | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Eosinophilic Focus | X | X | X | | | | X | X | | | X | X | | | X | | | X | X | | X | X | | X |
| Fatty Change, Focal | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | | | | | | | | | | | 2 | | | | | | | | | | | | | 3 |
| Hematopoietic Cell Proliferation | | | | | | | 1 | | | | | | | | | | | | | | | 1 | | |
| Hepatodiaphragmatic Nodule | | | | X | | | | | | | X | | | | | | | | | X | X | | | |
| Inflammation | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | | | | X | X | X | | | | | | | | X | | | | X | | X | | | X | X |
| Bile Duct, Fibrosis | | | 1 | | | | 1 | 1 | 1 | | | | | | 1 | | | 1 | 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
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| FISCHER 344 RATS FEMALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | |
| | 2 | 1 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 0 | 2 | 2 | 8 | 3 | 5 | 8 | 2 | 3 | 3 | 3 | 1 | 1 | 2 | 5 | |
| | 8 | 0 | 0 | 8 | 8 | 0 | 0 | 0 | 6 | 5 | 8 | 9 | 0 | 0 | 9 | 0 | 8 | 0 | 8 | 0 | 0 | 1 | 4 | 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 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 | |
| Bile Duct, Hyperplasia | 1 | | | | | | 1 | 1 | 1 | | | 2 | | | 1 | | | 1 | 1 | | | 1 | 1 | | |
| Centrilobular, Degeneration | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Hepatocyte, Hypertrophy | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | 2 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | + | | | | + | | | | | + | | | | | | | | |
| Fat, Necrosis | | | | | | | | 3 | | | | 3 | | | | | 3 | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | X | | | | | | X | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Acinus, Atrophy | | | | | | | | | | 1 | | | 2 | | | 1 | 1 | | | 1 | | | 1 | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Squamous | | | | 2 | | | | | | 1 | | | | | | | | | | | | | | 2 | |
| Inflammation | | | | | | | | | | 2 | | | | | 1 | | | | | | | | | 3 | |
| Ulcer | | | | | | | | | | 2 | | | | | | | | | | | | | | 3 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

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

Pigmentation 1

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 2 | 2 | 2 | 2 | 3 | | | 2 | 1 | 2 | | | 1 | 1 | | | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | | 2 | 2 | | |
| Degeneration, Cystic | | | | | | | | | | | | | 1 | 1 | | | | | | | 1 | | | | | 1 | | | | |
| Hyperplasia | | 2 | | | | | 2 | 1 | | | 1 | 2 | | | | | | | | 3 | 1 | | | | | 3 | | 1 | | 2 |
| Hypertrophy | | | | | | | | 2 | 2 | | | 3 | 2 | 1 | | | | | | | | 2 | | | | | | 1 | | |
| Vacuolization Cytoplasmic | 1 | 1 | | | | | 2 | | | | 1 | 2 | 1 | | | 1 | | | | 1 | 1 | | | | | 2 | 2 | | | 3 |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | X | | X | X | | | | | | | | X | | | | | | | | | | | | | | | X | X | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Pars Distalis, Hyperplasia | 3 | | 1 | | | | | 3 | | | | | | | | | | | | | 2 | | | | | 1 | 4 | 2 | | 2 |
| Thyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|
| FISCHER 344 RATS FEMALE

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

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | X | | | | | | X | | | X | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Inflammation | | | | | 2 | | 1 | 1 | | | 1 | | 1 | | | | | | 3 | | | 1 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | X | | | | | | X | | | | | | X | X | | | | X | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Decidual Reaction | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 2 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | 3 | | | 2 | 3 | 2 | | 3 | 3 | | | 3 | 2 | | | | | 3 | 3 | | 3 | 3 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | + |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Histiocyte | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | | 2 | | 1 | | | 3 | 1 | | 2 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Congestion | | | 2 | | 1 | | 1 | 2 | | | 1 | 1 | 2 | 3 | | 1 | | 1 | | 1 | | 1 | 1 |
| Hematopoietic Cell Proliferation | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 2 | 2 | 3 |
| Pigmentation | 2 | 3 | 3 | 3 | 2 | | 3 | 2 | 2 | | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 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
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 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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TDMS No. 20107 - 03
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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
| | 0
7
2
8 | 0
7
1
0 | 0
7
3
0 | 0
7
2
8 | 0
7
2
8 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
6
4
6 | 0
7
0
5 | 0
7
3
8 | 0
7
3
0 | 0
6
2
9 | 0
7
2
0 | 0
6
8
0 | 0
6
3
9 | 0
7
2
0 | 0
6
3
8 | 0
7
2
0 | 0
6
3
0 | 0
7
1
1 | 0
6
1
4 | 0
7
2
9 | 0
6
2
5 | | |
| Capsule, Fibrosis | 1 | | | | 2 | | 1 | | | | | | | 1 | 1 | | 1 | 1 | | | | | 1 | | | |
| Capsule, Hypertrophy, Mesothelium | | | | | 1 | | | | | | | 1 | | | | | 1 | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | 2 | 3 | | 3 | 2 | | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | | | | | | | | | X | X | | | | | | | | | | | | | | |
| Hyperplasia | | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperostosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Alveolar 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
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 BLANK .. Not examined microscopically

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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|----|-----|-----|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | 0730 | | | | | |
| ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | | | |
| Bile Duct, Hyperplasia | 1 | 1 | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | 27 | 1.0 | |
| Centrilobular, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Hepatocyte, Hypertrophy | | 1 | | | | 1 | | | | | | | 1 | | | | | | | | | | | | | 6 | 1.3 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.5 | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | | | 9 | | |
| Fat, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 3.0 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 1.6 |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 1.2 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.8 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 40 | 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
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Date Report Requested: 02/28/2011
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 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | | | |
| 20 MG/KG | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 |

Pigmentation

1 1.0

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | | 1 | 1 | 43 1.6 |
| Degeneration, Cystic | | | | | | | | | 1 | | | | | | | | | | | | | | | | 5 1.0 |
| Hyperplasia | | 1 | 1 | 1 | | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | 1 | 1 | | | 1 | 1 | 1 | | 1 | 2 | 2 | 28 1.5 |
| Hypertrophy | | | | 2 | | | | | 1 | 2 | | | | | | | | | 2 | | | | 3 | | 12 1.9 |
| Vacuolization Cytoplasmic | 1 | 1 | 1 | | 1 | 1 | | | | | 1 | | 1 | | | | 1 | | 2 | | 1 | | 2 | 2 | 26 1.3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | 3 | | | | | | | 1 3.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | 1 | | | | | | | | 2 1.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | X | X | X | | | | | X | X | X | | | | | X | | X | X | 15 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | X | | | | | | 2 |
| Pars Distalis, Hyperplasia | 2 | | | | | | 3 | | | | 3 | | 4 | 2 | | 3 | | | | | | | | 2 | 15 2.5 |
| Thyroid Gland | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| C-cell, Hyperplasia | | 1 | | | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | | | | | 1 | | 1 | | 15 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | | | |
| ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Clitoral Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | X | | | X | | | | | | | | | X | X | | | | | | | | | | | 7 | |
| Inflammation | 2 | 1 | 2 | | 1 | | | 2 | | | 1 | | 1 | 1 | | 2 | | | 1 | 1 | 2 | | | 2 | 20 | 1.5 | |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Uterus Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Decidual Reaction | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | 3 | | | 3 | | | | | 2 | | | 2 | | | | | | | | | | | 3 | 18 | 2.7 |
| Lymph Node Mediastinal, Ectasia | | | | | | | | | | + | | | | | | | | | | | | | | | | 2 | |
| | | | | | | | | | | 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 Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 1 | 1 | 1 | 1 | 1 | | 2 | 3 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 35 | 1.2 |
| Spleen Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | 2 | | | | 1 | | 1 | | 1 | | 2 | | 1 | | 1 | | 2 | | 1 | | 2 | | 1 | | 26 | 1.3 | |
| Pigmentation | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 47 | 1.9 |
| | 1 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 2 | 47 | 2.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--------|
| | 0730 | 0733 | 0738 | 0739 | 0730 | 0733 | 0738 | 0739 | 0730 | 0733 | 0738 | 0739 | 0730 | 0733 | 0738 | 0739 | 0730 | 0733 | 0738 | 0739 | | 0730 | 0733 | 0738 |
| ANIMAL ID | 00326 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 |
| Alveolus, Infiltration Cellular, Histiocyte | | | 1 | | | | | | | | | | | | 1 | | 1 | | | | | | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | | | 1 | 1 | 1 | | | | | | | | 2 | | 2 | | 1 | 2 | | | | 1 | 1 | 22 1.1 |
| Glands, Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 1.0 |
| Glands, Respiratory Epithelium, Dilatation | | | 1 | | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | 2 | | 1 | 1 | 1 | 1 | 27 1.1 |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | 2 | | 1 | | | 2 | | | | | 1 | 1 | 1 | | 1 | 1 | | 2 | 1 | 22 1.3 |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 44 1.8 |
| Glands, Transitional Epithelium, Hyperplasia | | | | 2 | | | | | | | | | | | | | | 1 | | | 1 | 1 | 1 | 12 1.2 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 2 | | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | | 1 | 2 | | 2 | 2 | 38 1.6 |
| Olfactory Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 1 | 2 | | 1 | 1 | | | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 23 1.1 |
| Respiratory Epithelium, Hyperplasia | | | 1 | 1 | | 1 | | | | | | 1 | | | | | | | | 1 | 1 | | 1 | 11 1.1 |
| Transitional Epithelium, Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | | | 6 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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TDMS No. 20107 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|---|--|
| | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 07 | | 06 | 07 | | |
| 20 MG/KG | 3 | 2 | 2 | 9 | 3 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 1 | 2 | 0 | 1 | 1 | 2 | 7 | 3 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accumulation, Hyaline Droplet | | | | | | | 1 | | | | | | | | | | | 1 | | | | | | 5 1.0 | |
| Calculus Micro Observation Only | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Infarct | | | | | | | | | | | | | 2 | | | 2 | | | | | | 3 | | 5 2.0 | |
| Mineralization | | 1 | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | 35 1.1 |
| Nephropathy | | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 2 | | 1 | | 1 | 1 | 1 | 1 | 1 | 38 1.2 |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 43 1.0 | |
| Papilla, Fibrosis | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 | |
| Pelvis, Inflammation | | | | | | | | | | | | 2 | | 3 | | 2 | | | | | | | 2 | 9 2.0 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | 2 | | 3 | | 2 | | | | | | | 2 | 8 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
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TDMS No. 20107 - 03
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Date Report Requested: 02/28/2011
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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
| | 0
7
1
4 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
8 | 0
7
2
8 | 0
7
2
9 | 0
7
2
0 | 0
6
3
4 | 0
6
9
5 | 0
6
8
2 | 0
6
8
1 | 0
6
2
8 | 0
7
3
0 | 0
7
2
9 | 0
5
3
3 | 0
7
2
9 | 0
3
8
1 | 0
4
7
1 | 0
7
2
4 | 0
0
1
2 | 0
5
4
2 | 0
7
2
9 | 0
7
2
0 | | |
| Bile Duct, Fibrosis | 1 | 2 | 1 | 1 | | 1 | | 1 | | 2 | 1 | 1 | 1 | | | 1 | | 1 | 1 | | 1 | 1 | 1 | | | |
| Bile Duct, Hyperplasia | 1 | 1 | 2 | 2 | 1 | | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | | 1 | 2 | 2 | 1 | |
| Centrilobular, Degeneration | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | 3 | 2 | | | | | 1 | 2 | 2 | | 1 | 1 | | | 1 | 1 | | 1 | | 1 | | 1 | | 1 | | |
| Hepatocyte, Necrosis | | 1 | | 1 | | | | | | 3 | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | + | | | | | | | | | | | | | | | | | | | | | + | |
| | | | | 3 | | | | | | | | | | | | | | | | | | | | | 3 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | X | | | | | | | | | | | | | | | | | | | | X | | | | |
| Infiltration Cellular, Mononuclear Cell | | 1 | | | | | | | | | | 1 | | | | | | | | 2 | | | | 1 | | |
| Acinus, Atrophy | | | | | | | | 2 | | 1 | | | | 1 | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Squamous | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | 3 | | 2 | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | 3 | | 2 | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|
| | 0
7
1
4 | 0
7
2
9 | 0
7
2
9 | 0
7
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9 | 0
7
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8 | 0
7
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8 | 0
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9 | 0
7
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3 | 0
7
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0 | 0
6
9
4 | 0
6
8
5 | 0
6
8
2 | 0
6
8
1 | 0
6
7
8 | 0
7
2
3 | 0
7
2
0 | 0
5
3
9 | 0
7
2
1 | 0
3
4
8 | 0
4
2
1 | | | 0
7
2
4 | 0
0
1
2 | 0
5
2
3 |
| Heart | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Diffuse | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | |

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1) Minimal 3) Moderate

2) Mild 4) Marked

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | 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 |
| 60 MG/KG | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 3 | 4 | 7 | 0 | 5 | 7 | 7 | 7 |
| | | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 9 | 8 | 8 | 8 | 2 | 3 | 2 | 3 | 2 | 8 | 7 | 2 | 1 | 4 | 2 | 2 | 2 |
| | | 4 | 9 | 9 | 9 | 8 | 8 | 9 | 0 | 4 | 5 | 2 | 1 | 8 | 0 | 9 | 3 | 9 | 1 | 1 | 8 | 4 | 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 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 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 | |
| Infiltration Cellular, Histiocyte | | | 1 | 2 | 1 | 1 | | | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 2 | | 2 | 1 | | 2 | 3 | 1 | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | | | | | | | 2 | 2 | 2 | | | | | 2 | 2 | | 2 | 1 | 2 | | 1 | 1 | |
| Hematopoietic Cell Proliferation | | 3 | 2 | 2 | 2 | 3 | | 1 | 2 | 1 | | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | | 1 | 1 | |
| Pigmentation | | 1 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | | 2 | 2 | |
| Capsule, Fibrosis | | | 1 | 2 | 1 | 2 | | 2 | 1 | 2 | 2 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | | 2 | 1 | |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | | 1 | | | 1 | | 1 | | | 1 | 1 | | | | 1 | |
| Lymphoid Follicle, Atrophy | | | | | | | 3 | | 3 | 4 | 3 | 3 | 2 | 2 | | 2 | 2 | 2 | | 2 | 3 | 2 | | 3 | |
| Thymus | | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | |
| Atrophy | | 3 | 2 | 2 | 2 | 3 | | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | | 2 | 2 | | 2 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | | | | | | | | | | | 1 | | | | | | | | | | | 3 | |

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

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

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| | 0
7
1
4 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
8 | 0
7
2
8 | 0
7
2
9 | 0
7
2
0 | 0
7
3
4 | 0
7
9
5 | 0
7
8
4 | 0
7
8
5 | 0
7
8
2 | 0
7
3
1 | 0
7
2
8 | 0
7
3
9 | 0
7
2
3 | 0
7
8
1 | 0
7
4
8 | 0
7
0
4 | 0
7
5
2 | 0
7
7
9 | 0
7
7
2 | 0
7
7
0 | |
| 60 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| | 0
0
3
5
1 | 0
0
3
5
2 | 0
0
3
5
3 | 0
0
3
5
4 | 0
0
3
5
5 | 0
0
3
5
6 | 0
0
3
5
7 | 0
0
3
5
8 | 0
0
3
5
9 | 0
0
3
5
0 | 0
0
3
5
1 | 0
0
3
6
2 | 0
0
3
6
3 | 0
0
3
6
4 | 0
0
3
6
5 | 0
0
3
6
6 | 0
0
3
6
7 | 0
0
3
6
8 | 0
0
3
6
9 | 0
0
3
6
0 | 0
0
3
6
1 | 0
0
3
6
2 | 0
0
3
6
3 | 0
0
3
6
4 | |

Inflammation, Suppurative
 Perforation

X

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ear | + | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Degeneration | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Lacrimal Gland | + | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accumulation, Hyaline Droplet | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | 1 | | 2 | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nephropathy | 1 | 1 | 1 | 1 | 4 | 2 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | 1 | 1 | 1 | 2 | |
| Pigmentation | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | | | 1 | 1 | 1 | 1 | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Dilatation | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | 3 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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TDMS No. 20107 - 03
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 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0729 | 0384 | 0730 | 0670 | 0779 | 0468 | 0583 | 0729 | 0779 | 0779 | 0665 | 0567 | 0567 | 0779 | 0779 | 0779 | 0779 | 0667 | 0479 | 0767 | | 0779 | 0779 | | |
| 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 | 00400 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 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 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parasite Metazoan | | | X | | X | | | | | | | | | | | | | | | | | X | | | 3 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 1.4 |
| Basophilic Focus | | X | | | X | | | | | | | | | | | | | | | | | | | | 6 | |
| Clear Cell Focus | X | | X | X | | | | X | X | | X | | | X | X | X | X | | X | X | | X | X | X | 29 | |
| Degeneration, Cystic | | | 2 | | | | | | | | 1 | | | | | | | | | | | | | 1 | 10 | 1.2 |
| Eosinophilic Focus | X | | X | | | | X | X | X | X | X | X | | | X | X | X | | X | X | | X | X | X | 32 | |
| Fatty Change, Focal | | | 1 | | | | | | | | | | | | 2 | | | | | | | | | | 4 | 1.3 |
| Fatty Change, Diffuse | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Hematopoietic Cell Proliferation | | | | | | | 1 | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | X | X | | | | | 3 | |
| Inflammation | 2 | | 1 | | 1 | | | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 39 | 1.1 |
| Mixed Cell Focus | X | | X | | | | | X | X | | X | | | | X | X | X | | X | | X | | X | X | 26 | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

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

| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|----|-----|-----|
| | 0729 | 0840 | 0730 | 0610 | 0779 | 0458 | 0573 | 0779 | 0779 | 0779 | 0656 | 0565 | 0779 | 0779 | 0779 | 0779 | 0672 | 0645 | 0779 | 0679 | | 0779 | | | |
| ANIMAL ID | 00376 | 00378 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | | | | |
| Bile Duct, Fibrosis | 1 | 1 | 1 | | | | 1 | | | | | | | 2 | 1 | 1 | | 1 | | | 1 | 2 | 27 | 1.1 | |
| Bile Duct, Hyperplasia | 2 | | 2 | 2 | | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 2 | 2 | 2 | 1 | 2 | | 1 | 1 | 2 | 2 | 43 | 1.5 |
| Centrilobular, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hepatocyte, Hypertrophy | 1 | | | 1 | | | | 1 | | | | 1 | | | | 1 | 1 | 3 | | | 1 | | 22 | 1.3 | |
| Hepatocyte, Necrosis | | | | | | | | | | 3 | | | | | | | | 1 | | | | | 5 | 1.8 | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | X | | | | | | X | | | | X | 5 | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | 2 | | 1 | 1 | | 1 | | 1 | | | | | | 9 | 1.2 | |
| Acinus, Atrophy | | | | | | | | | | 3 | | | 1 | | | | 1 | | 2 | | | | 7 | 1.6 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Salivary Glands | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Squamous | | | | | | | | | | | 2 | | | | | | | 2 | 3 | | | | 4 | 2.3 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Tongue | + | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

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|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | 0729 |
| ANIMAL ID | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 1 | | 1 | | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 42 | 1.1 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Angiectasis | 1 | | 2 | | 1 | | 2 | 1 | 1 | | 2 | 2 | | | 1 | 1 | 1 | | 1 | 1 | | 2 | 2 | 2 | 34 | 1.5 |
| Degeneration, Cystic | | | 1 | | | | | | | 3 | | | | | | | | | | | | | | 3 | 2.0 | |
| Hyperplasia | 1 | | | | | | | 1 | | | 1 | | | | | | 2 | | 2 | | | | | 12 | 1.4 | |
| Hypertrophy | | | | | | | | | | | | | | | | 2 | | | | | | 1 | | 8 | 1.4 | |
| Necrosis | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | 2.0 | |
| Vacuolization Cytoplasmic | 2 | | | 1 | | | 1 | | 1 | 1 | | | | | | 2 | 1 | | | | | | | 18 | 1.4 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hyperplasia | | | | | | | | | 2 | 1 | | | | | | | | | | | | 2 | | 5 | 1.8 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 46 | | |
| Hyperplasia, Diffuse | | | | | | | | | | 1 | | | | | | | | | | | | | | 5 | 1.4 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | X | | | | | | | X | | X | | | | | | 4 | | |
| Pars Distalis, Angiectasis | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pars Distalis, Hyperplasia | 3 | | | | | | 3 | | 3 | | 2 | 1 | | | 2 | | 3 | 4 | | | 3 | | 3 | 17 | 2.6 | |
| Thyroid Gland | + | M | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | 45 | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | | 4 | 1.5 | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0729 | 0384 | 0730 | 0610 | 0729 | 0458 | 0577 | 0777 | 0777 | 0665 | 0566 | 0565 | 0777 | 0777 | 0777 | 0777 | 0666 | 0644 | 0776 | 0676 | 0777 | 0677 | 0722 | 0676 | |
| ANIMAL ID | 00376 | 00378 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | 00397 | 00398 | 00399 | 00400 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | X | | | | X | | X | | | | | | | | | | | | | | | | 5 |
| Hyperplasia | | | | | 2 | | | | | | | | | | | 3 | 2 | | | | | | | | 4 2.0 |
| Inflammation | 1 | | | 1 | | | | | | | | | 1 | | 1 | 1 | | | | | 1 | | | | 15 1.1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Cervix, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 49 2.6 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 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 | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

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

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|-----------------------------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|----|----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 7 | 3 | 7 | 6 | 7 | 4 | 5 | 7 | 7 | 7 | 6 | 5 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 7 | 7 | |
| 2 | 8 | 3 | 1 | 2 | 6 | 8 | 2 | 2 | 0 | 2 | 4 | 7 | 3 | 3 | 3 | 2 | 1 | 2 | 0 | 5 | 2 | 1 | 0 | 2 | 1 | |
| 9 | 4 | 0 | 0 | 9 | 8 | 3 | 9 | 9 | 1 | 5 | 7 | 0 | 7 | 0 | 0 | 8 | 4 | 8 | 7 | 9 | 0 | 2 | 6 | 7 | 1 | |
| Infiltration Cellular, Histiocyte | 1 | 3 | | | 1 | 1 | 2 | 1 | | 2 | 2 | | 3 | 2 | 1 | | | 1 | 1 | | 1 | 1 | 1 | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Congestion | 2 | 1 | 2 | 2 | 3 | | | 2 | 1 | | | 1 | | 2 | 3 | 2 | 2 | | | 2 | | | 2 | 2 | 1 | |
| Hematopoietic Cell Proliferation | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | | 1 | 2 | | 2 | | | 2 | 2 | | 2 | 2 | 1 | 42 | |
| Pigmentation | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | |
| Capsule, Fibrosis | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | |
| Capsule, Hypertrophy, Mesothelium | 1 | | | | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | | 1 | 2 | 1 | | | | | | 16 | |
| Lymphoid Follicle, Atrophy | 1 | 2 | | | 2 | 2 | 3 | 2 | 2 | 3 | | | | 2 | | 4 | | 2 | | 2 | 3 | | 2 | | 28 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Atrophy | 3 | 2 | 3 | | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | 3 | 2 | | 2 | 3 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | 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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| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 0729 | 0840 | 0730 | 0610 | 0779 | 0458 | 0779 | 0779 | 0779 | 0656 | 0565 | 0665 | 0575 | 0777 | 0777 | 0777 | 0777 | 0672 | 0467 | 0767 | | 0777 |
| ANIMAL ID | 00376 | 00378 | 00370 | 00371 | 00372 | 00373 | 00374 | 00375 | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | | | 1 | | | | | | 1 | 1 | | | 1 | | | | | | | 17 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | X | | 4 |
| Inflammation | 1 | | 2 | 2 | 1 | | 1 | 2 | | 1 | 2 | 2 | | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 45 1.5 |
| Glands, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 |
| Glands, Olfactory Epithelium, Dilatation | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 48 2.4 |
| Glands, Olfactory Epithelium, Hyperplasia | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 47 1.9 |
| Glands, Olfactory Epithelium, Metaplasia | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 2 | 1 | 1 | | 1 | 42 1.3 |
| Glands, Olfactory Epithelium, Necrosis | | | | 3 | | 2 | | 2 | | | | | | 3 | | | | | 3 | 3 | 3 | 18 2.8 |
| Glands, Respiratory Epithelium, Dilatation | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 47 1.2 |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | | 1 | 2 | 2 | | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 45 1.6 |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 47 2.0 |
| Glands, Transitional Epithelium, Dilatation | 2 | | 2 | | | | | | | | | | | | | 1 | | 1 | | | 1 | 9 1.4 |
| Glands, Transitional Epithelium, Hyperplasia | | 1 | | 2 | 1 | 2 | 2 | | | | | 2 | | 1 | 1 | | | | 2 | 2 | 1 | 24 1.4 |
| Nerve, Atrophy | | | | | 2 | | | | | 3 | | | | | | | | | | | | 4 1.8 |
| Olfactory Epithelium, Degeneration | 2 | | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 3 | | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 46 2.0 |
| Olfactory Epithelium, Hyperplasia, Basal Cell | | 1 | | 1 | 1 | 1 | 1 | | | 2 | | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 25 1.2 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | 1 | | 1 | | | | 1 | | 3 | 2 | | | | 1 | | 1 | 1 | | 1 | 21 1.2 |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | 1 | | | 1 | | | | | | | | | | | | 2 1.0 |
| Respiratory Epithelium, Hyperplasia | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 41 1.3 |
| Transitional Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Transitional Epithelium, Hyperplasia | 1 | | | 1 | 1 | 1 | 1 | | | 1 | 1 | 2 | | 1 | 2 | 1 | 1 | 2 | | 1 | 1 | 33 1.1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 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

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1) Minimal 3) Moderate

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TDMS No. 20107 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

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 N,N-Dimethyl-p-toluidine
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 Lab: BAT

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

Inflammation, Suppurative
 Perforation

1
 1 1.0
 1

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Ear | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cornea, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Infarct | | | | | | | | | 3 | | | | | | 3 | | | | | | | | 2 3.0 | | |
| Mineralization | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | | | 1 | | 1 | 1 | 37 1.1 | | |
| Nephropathy | 1 | | 2 | | 4 | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 2 | | 2 | 3 | 2 | 4 | 2 | | 1 | 1 | 1 | 1 | 41 1.8 |
| Pigmentation | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 49 1.4 |
| Papilla, Necrosis | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 3.0 | |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Pelvis, Inflammation | | | | | | | | | 3 | | | | | | 2 | 3 | | | | | | | | 5 2.6 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | 2 | | | | | | 2 | 3 | | | | | | | | 6 2.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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TDMS No. 20107 - 03
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 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------|
| | 0729 | 0384 | 0730 | 0610 | 0729 | 0458 | 0573 | 0779 | 0779 | 0776 | 0556 | 0565 | 0777 | 0773 | 0732 | 0771 | 0720 | 0667 | 0479 | 0762 | 0767 | 0677 | 0777 | | |
| 60 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0037 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | | |
| Inflammation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 1.0 | |

*** END OF REPORT ***

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