

TDMS No. 05128 - 06
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
D & C YELLOW NO. 11
CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
Time Report Reqsted: 11:47:58
First Dose M/F: 04/26/90 / 04/26/90
Lab: SRI

C Number: C61789B
Lock Date: 01/12/1993
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
TDMSE Version: 1.7.0

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

males
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema																								
Parasite Metazoan																								
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan																			X					X
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan									X					X						X		X		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Hyperplasia																								
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																								
Basophilic Focus																								
Clear Cell Focus				X				X	X					X							X	X		
Degeneration, Cystic					1		1	2			2			X		X						X		X
Eosinophilic Focus								X												X				
Granuloma																						1	1	

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	3	7	6	6	7	6	7	7	7	5	7	3	7	6	6	6	7	7	3	7	7	7	7	7	7	7	7
	3	5	0	3	6	3	9	0	3	3	0	3	5	3	3	7	9	5	3	1	5	3	3	0	3	3	3	
	0	7	6	2	7	3	5	1	3	3	9	3	7	3	7	7	3	0	3	9	7	3	3	6	3			
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	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	2	2	2
																												males (cont...)
Hepatodiaphragmatic Nodule																												X
Inflammation, Subacute																												
Mixed Cell Focus												X																
Necrosis, Focal																		1										
Thrombosis																												
Bile Duct, Hyperplasia	1	1	3	2	3	1	3	2	2	2	3	1		1	2	2	3	2	2	3		1	1	2	1			
Centrilobular, Atrophy	3						3			2	2				2	2		2		2				2				
Centrilobular, Necrosis																												
Hepatocyte, Vacuolization Cytoplasmic	1														3		4											
Kupffer Cell, Pigmentation					3		2									3	2											
Mesentery																												
Fat, Necrosis												+						+						+				
												2						4						3				
Pancreas																												
Atrophy	1		3		1	2	1				2	3			1	1		1	1	3							1	
Basophilic Focus															X													
Edema							1																					
Metaplasia																												
Acinar Cell, Hyperplasia, Focal					3										1													
Salivary Glands																												
Atrophy					1																							
Stomach, Forestomach																												
Edema					3		3																					
Ulcer					4													2										
Mucosa, Hyperplasia					4																							
Stomach, Glandular																												

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	5	3	7	6	6	7	6	7	7	7	5	7	3	7	6	6	6	6	7	7	3	7	7	7	7	7
	3	5	0	3	6	3	9	0	3	3	0	3	5	3	3	7	9	5	3	1	5	3	3	0	3	
	0	7	6	2	7	3	5	1	3	3	9	3	7	3	7	7	3	0	3	9	7	3	3	6	3	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	0	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	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...)

Edema			2		3			2							2											
Erosion																			3							
Ulcer															3											
Tongue																										

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hypertrophy																										
Inflammation, Subacute																										3
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	1	2	3	2	2		1	2	3	3	3	1	1	3			2	3							3

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule				1		2					1				3											1
Degeneration, Fatty			2				2	1									2			1		1	3			
Hypertrophy, Focal															3					2			2			
Necrosis																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia							3	2	3			2					2									
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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	5	3	7	6	6	7	6	7	7	7	5	7	3	7	6	6	6	6	7	7	3	7	7	7	7	7	
	3	5	0	3	6	3	9	0	3	3	0	3	5	3	3	7	9	5	3	1	5	3	3	0	3		
	0	7	6	2	7	3	5	1	3	3	9	3	7	3	7	7	3	0	3	9	7	3	3	6	3		
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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...)	

Hyperplasia																									2		
Parathyroid Gland	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Hyperplasia																									2		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Angiectasis																									3		
Pars Distalis, Cyst																									3		
Pars Distalis, Hyperplasia, Focal				3						1									1	3	2					2	
Pars Intermedia, Angiectasis			3																								
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ultimobranchial Cyst																									X		
C-cell, Hyperplasia																									1		
Follicle, Cyst																									3		

GENERAL BODY SYSTEM

Peritoneum																									+
------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Atypia Cellular										3	3	3							3	3	3	3					3	3			
Edema							2																								
Hypospermia				3						3	3	3							3	3	3	3	3	3					3	3	

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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	
	5	3	7	6	6	7	6	7	7	7	5	7	3	7	6	6	6	6	7	7	3	7	7	7	7	
	3	5	0	3	6	3	9	0	3	3	0	3	5	3	3	7	9	5	3	1	5	3	3	0	3	
	0	7	6	2	7	3	5	1	3	3	9	3	7	3	7	7	3	0	3	9	7	3	3	6	3	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	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	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst	3																									
Hyperplasia																							2			
Inflammation, Suppurative													1									3		1		
Inflammation, Chronic				2		2		2			2										1		2			
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Corpora Amylacea	2			2			2		3		2						2		2	3				2		
Edema			3																							
Inflammation, Suppurative	2	1	1		3	3	2	3	3	2		1		2								3	3			
Epithelium, Hyperplasia							1											1						1		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Interstitial Cell, Hyperplasia	1	1	2																			1		1		
Seminiferous Tubule, Atrophy																										

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				3																					
Myelofibrosis							3																		
Lymph Node	+		+																						
Deep Cervical, Pigmentation												2													
Iliac, Ectasia							2																		
Mediastinal, Hemorrhage																									
Mediastinal, Pigmentation												2	3										2		

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	5	3	7	6	6	7	6	7	7	7	5	7	3	7	6	6	6	6	7	7	3	7	7	7	7	
	3	5	0	3	6	3	9	0	3	3	0	3	5	3	3	7	9	5	3	1	5	3	3	0	3	
	0	7	6	2	7	3	5	1	3	3	9	3	7	3	7	3	0	3	9	7	3	3	6	3		
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	males (cont...)
	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	

Pancreatic, Ectasia	1									2																									
Pancreatic, Pigmentation																																			
Renal, Pigmentation	3																																		
Lymph Node, Mandibular Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										
Hemorrhage																																			
Hyperplasia, Lymphoid											2										1														
Pigmentation																2					3					2									
Lymph Node, Mediastinal																																			
Lymph Node, Mesenteric Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										
Hyperplasia, Lymphoid											3					4					2					2									
Spleen Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+										
Hematopoietic Cell Proliferation	2																																		
Pigmentation											2					2					2					3					1				
Thymus	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+										

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	
	1			3				2	2	1				4	2	2					2	4				

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 Lab: SRI

	DAY ON TEST																									males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	3	7	6	6	7	6	7	7	7	5	7	3	7	6	6	6	6	7	7	3	7	7	7	7	
	3	5	0	3	6	3	9	0	3	3	0	3	5	3	3	7	9	5	3	1	5	3	3	0	3	
	0	7	6	2	7	3	5	1	3	3	9	3	7	3	7	7	3	0	3	9	7	3	3	6	3	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
	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	

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																									X
Hyperkeratosis																									2
Ulcer																									4
Epidermis, Hyperplasia																									2

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Osteodystrophy																									
Hyperostosis																									
Skeletal Muscle																									+

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Developmental Malformation					X																				X
Hydrocephalus					2																				2
Peripheral Nerve																									
Spinal Cord																									

RESPIRATORY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
D & C YELLOW NO. 11
CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
Time Report Requested: 11:47:58
First Dose M/F: 04/26/90 / 04/26/90
Lab: SRI

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	3	7	6	6	7	6	7	7	7	5	7	3	7	6	6	6	6	7	7	3	7	7	7	7	
	3	5	0	3	6	3	9	0	3	3	0	3	5	3	3	7	9	5	3	1	5	3	3	0	3	
	0	7	6	2	7	3	5	1	3	3	9	3	7	3	7	7	3	0	3	9	7	3	3	6	3	
.....																										
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNTRTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
	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...)
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Edema																										
Hemorrhage	2										2															
Infiltration Cellular, Histiocyte			1	1	1					1						1	1		1							
Inflammation, Subacute																							1			
Alveolar Epithelium, Hyperplasia								2																		
.....																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Exudate										3									3	3						
Foreign Body																			X							
Mucosa, Hyperplasia																				1						
Mucosa, Metaplasia, Squamous							3	3										3	2							
.....																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
.....																										
SPECIAL SENSES SYSTEM																										
.....																										
Ear																										+
.....																										
Eye																										+
Cataract																										3
Retina, Degeneration																										3
.....																										
URINARY SYSTEM																										
.....																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Mineralization																										2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
x .. Lesion present
! .. 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
Page 9

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	ANIMAL ID																									males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	3	7	6	6	7	6	7	7	7	5	7	3	7	6	6	6	6	7	7	3	7	7	7	7		
3	5	0	3	6	3	9	0	3	3	0	3	5	3	3	7	9	5	3	1	5	3	3	0	3		
0	7	6	2	7	3	5	1	3	3	9	3	7	3	7	7	3	0	3	9	7	3	3	6	3		
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	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		
	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	
Nephropathy	1	1	3	3	2	1	3	2	2	2	2	1	1	2	3	2	2	1	3	2	1	3	2	2	3	
Renal Tubule, Pigmentation	3		2				2	2								2		1	3		1		3			
Transitional Epithelium, Hyperplasia			1				1								1						2					
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Transitional Epithelium, Hyperplasia																										

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	7	6	6	7	7	6	7	6	7	6	6	3	6	6	7	3	7	6	6	3	6	7	3	6
	5	3	1	2	3	1	5	3	3	3	8	9	5	2	2	3	5	0	0	2	5	3	3	5	5
	7	3	9	8	3	6	6	3	2	3	8	5	7	1	3	3	7	2	0	2	7	8	3	7	6
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNTREATDCONTROL	0	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
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	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

males
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema												2												
Parasite Metazoan								X																
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+
Parasite Metazoan	X																	X						X
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan							X			X													X	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Hyperplasia																								
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis										4			3			2				4				1
Basophilic Focus																					X			
Clear Cell Focus		X			X		X																	
Degeneration, Cystic										4	1		3		3		1		4			1		
Eosinophilic Focus								X				X			X				X					
Granuloma																								

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 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	3	7	6	6	7	7	6	7	6	7	6	6	3	6	6	7	3	7	6	6	3	6	7	3	6
	5	3	1	2	3	1	5	3	3	3	8	9	5	2	2	3	5	0	0	2	5	3	3	5	5
	7	3	9	8	3	6	6	3	2	3	8	5	7	1	3	3	7	2	0	2	7	8	3	7	6
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNTREATDCONTROL	0	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
	2	2	2	2	3	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	0
Hepatodiaphragmatic Nodule																									
Inflammation, Subacute	1																								
Mixed Cell Focus																									
Necrosis, Focal			1																						
Thrombosis																						2			
Bile Duct, Hyperplasia	1	1	1		1	2	1	2	1	3	3	3	2	2	3	4		2	4	4		3	2	1	
Centrilobular, Atrophy						3						2			2							2			
Centrilobular, Necrosis									1																
Hepatocyte, Vacuolization						1									3										
Kupffer Cell, Pigmentation						3										2									
Mesentery																									
Fat, Necrosis						+							+	+					+	+			+		
Pancreas																									
Atrophy																									
Basophilic Focus																									
Edema																									
Metaplasia													1												
Acinar Cell, Hyperplasia, Focal																									
Salivary Glands																									
Atrophy																									
Stomach, Forestomach																									
Edema																									
Ulcer																									
Mucosa, Hyperplasia																									
Stomach, Glandular																									

**males
(cont...)**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 l .. 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
 Page 12

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

	DAY ON TEST																								males (cont...)	
	0 3 5 7	0 7 3 3	0 6 1 9	0 6 2 8	0 7 3 3	0 7 1 6	0 6 5 6	0 7 3 3	0 6 3 2	0 7 3 3	0 6 8 8	0 6 9 5	0 6 5 7	0 3 2 1	0 6 6 3	0 7 2 3	0 6 7 3	0 6 2 7	0 6 6 6	0 3 5 8	0 6 3 3	0 7 3 7	0 6 5 8	0 3 3 7		
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	0	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	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	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	
Preputial Gland	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cyst						3																				
Hyperplasia												3														
Inflammation, Suppurative			1				2								2	2			1							
Inflammation, Chronic									2	2							1				2	2	1	2		
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Corpora Amylacea			2		2	3															3			2		
Edema																										
Inflammation, Suppurative	2	3		4	4	2	2	3	1	4	2	1		2	2	2	1		1			1		3		
Epithelium, Hyperplasia		1						1		2																
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Testes	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Interstitial Cell, Hyperplasia	1			1				1							1			1								
Seminiferous Tubule, Atrophy													3											3		

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia							2			3															
Myelofibrosis											3									2					
Lymph Node	+				+	+	+	+	+			+	+						+	+	+		+		
Deep Cervical, Pigmentation								2																	
Iliac, Ectasia																									
Mediastinal, Hemorrhage	3												2												
Mediastinal, Pigmentation	2					3	4	3				2								2	3				

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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	7	6	6	7	7	6	7	6	7	6	6	3	6	6	7	3	7	6	6	3	6	7	3	6
	5	3	1	2	3	1	5	3	3	3	8	9	5	2	2	3	5	0	0	2	5	3	3	5	5
	7	3	9	8	3	6	6	3	2	3	8	5	7	1	3	3	7	2	0	2	7	8	3	7	6
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNTREATDCONTROL	0	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
	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

males
(cont...)

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion				X														X							
Hyperkeratosis					3																2				
Ulcer																									
Epidermis, Hyperplasia					3																3				

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Osteodystrophy																									
Hyperostosis																									

Skeletal Muscle

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Developmental Malformation				X	X												X								X
Hydrocephalus																									
Peripheral Nerve																									
Spinal Cord																									

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

Lung	+ + + + + + + + + + + + + + + + + + + + + + + + + +																							
Edema																								
Hemorrhage	1																							
Infiltration Cellular, Histiocyte	1 1 1 1 3 1																							
Inflammation, Subacute																								
Alveolar Epithelium, Hyperplasia	3 3																							
Nose	+ + + + + + + + + + + + + + + + + + + + + + + + + +																							
Exudate	3 3 3 3																							
Foreign Body	X																							
Mucosa, Hyperplasia	2 2 2																							
Mucosa, Metaplasia, Squamous	2 3 3																							
Trachea	+ + + + + + + + + + + + + + + + + + + + + + + + + +																							

SPECIAL SENSES SYSTEM

Ear	+																							
Eye																								
Cataract																								
Retina, Degeneration																								

URINARY SYSTEM

Kidney	+ + + + + + + + + + + + + + + + + + + + + + + + + +																							
Cyst	3																							
Mineralization	2 2 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	7	6	6	7	7	6	7	6	7	6	6	3	6	6	7	3	7	6	6	3	6	7	3	6
	5	3	1	2	3	1	5	3	3	3	8	9	5	2	2	3	5	0	0	2	5	3	3	5	5
	7	3	9	8	3	6	6	3	2	3	8	5	7	1	3	3	7	2	0	2	7	8	3	7	6
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	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
Nephropathy	1	3	1	4	4	3	1	3	2	3	1	1	1	2	2	3	1	2	3	2	1	3	3	1	3
Renal Tubule, Pigmentation							3				1	3		3		1		2	2	1		3			
Transitional Epithelium, Hyperplasia				1	1	1															1				
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Transitional Epithelium, Hyperplasia					2																				

males
(cont...)

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 + .. Tissue examined microscopically
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 2) Mild 4) Marked
 Page 19

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	59	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	60	
Edema												1 2.0
Parasite Metazoan				X								2
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	59	
Parasite Metazoan												5
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	60	
Parasite Metazoan					X	X		X				10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	60	
Epithelium, Hyperplasia		2										1 2.0
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	59	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	60	
Liver	+	+	+	+	+	+	+	+	+	+	60	
Angiectasis						2						6 2.7
Basophilic Focus		X			X	X				X		15
Clear Cell Focus					X			X				9
Degeneration, Cystic					2	3						15 2.1
Eosinophilic Focus						X						7
Granuloma						2						3 1.3

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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	3	7	4	5	7	7	3	6	7	7	
	5	2	8	9	3	3	5	1	3	3	
	7	2	1	0	3	3	7	5	4	4	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	
.....											
Hepatodiaphragmatic Nodule											2
Inflammation, Subacute											1 1.0
Mixed Cell Focus											1
Necrosis, Focal											2 1.0
Thrombosis		2									2 2.0
Bile Duct, Hyperplasia		3	1	1	2	2	1	3	2	2	53 2.0
Centrilobular, Atrophy											14 2.2
Centrilobular, Necrosis											1 1.0
Hepatocyte, Vacuolization Cytoplasmic											5 2.4
Kupffer Cell, Pigmentation			2								7 2.4
.....											
Mesentery			+					+	+		12
Fat, Necrosis			2					3	3		12 2.9
.....											
Pancreas		+	+	+	+	+	+	+	+	+	60
Atrophy				1	1			1	2		26 1.4
Basophilic Focus											1
Edema								2			3 1.3
Metaplasia											1 1.0
Acinar Cell, Hyperplasia, Focal											6 2.0
.....											
Salivary Glands		+	+	+	+	+	+	+	+	+	60
Atrophy											1 1.0
.....											
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	60
Edema		3	2								5 2.8
Ulcer		1									5 2.2
Mucosa, Hyperplasia		3									4 3.3
.....											
Stomach, Glandular		+	+	+	+	+	+	+	+	+	60

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 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	3	7	4	5	7	7	3	6	7	7
	5	2	8	9	3	3	5	1	3	3
	7	2	1	0	3	3	7	5	4	4
.....										
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0

*** TOTALS**

Edema	1	2									7 2.0	
Erosion			3								2 3.0	
Ulcer											1 3.0	
.....												
Tongue												1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	60	
Hypertrophy												1 3.0
Inflammation, Subacute												1 3.0
.....												
Heart	+	+	+	+	+	+	+	+	+	+	60	
Cardiomyopathy		3	3	3	3			1	2	2		44 2.2

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	60	
Accessory Adrenal Cortical Nodule					2							10 1.7
Degeneration, Fatty					3				1			11 1.8
Hypertrophy, Focal												5 2.0
Necrosis												1 4.0
.....												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	60	
Hyperplasia		1			3	3						13 2.4
.....												
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	60	

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1-4 .. Lesion qualified as:
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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

Hyperplasia											1 2.0
.....											
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	57
Hyperplasia	3										3 2.7
.....											
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	60
Pars Distalis, Angiectasis	2								3	7 3.0	
Pars Distalis, Cyst	3										4 3.0
Pars Distalis, Hyperplasia, Focal	2		2								12 2.2
Pars Intermedia, Angiectasis											1 3.0
.....											
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	60
Ultimobranchial Cyst						3					2 3.0
C-cell, Hyperplasia											2 1.5
Follicle, Cyst											1 3.0

GENERAL BODY SYSTEM

Peritoneum											2
------------	--	--	--	--	--	--	--	--	--	--	----------

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	59
Atypia Cellular	3		3		3						19 3.0
Edema											1 2.0
Hypospermia	3		3		3		3		3		26 3.0

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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	3	7	4	5	7	7	3	6	7	7	
	5	2	8	9	3	3	5	1	3	3	
	7	2	1	0	3	3	7	5	4	4	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Preputial Gland	+	+	+	+	+	+	+	+	+	+	59
Cyst											3 3.0
Hyperplasia											2 2.5
Inflammation, Suppurative											8 1.6
Inflammation, Chronic	2	2									15 1.8
.....											
Prostate	+	+	+	+	+	+	+	+	+	+	60
Corpora Amylacea		3	2			2				2	18 2.3
Edema											1 3.0
Inflammation, Suppurative		1	1	1	1	2		3			37 2.1
Epithelium, Hyperplasia											6 1.2
.....											
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	60
.....											
Testes	+	+	+	+	+	+	+	+	+	+	59
Interstitial Cell, Hyperplasia			1				1				13 1.1
Seminiferous Tubule, Atrophy								4			4 2.8

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	60
Hyperplasia											3 2.7
Myelofibrosis											3 2.7
.....											
Lymph Node											22
Deep Cervical, Pigmentation											2 2.0
Iliac, Ectasia											1 2.0
Mediastinal, Hemorrhage											2 2.5
Mediastinal, Pigmentation											10 2.6

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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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	3	7	4	5	7	7	3	6	7	7	
	5	2	8	9	3	3	5	1	3	3	
	7	2	1	0	3	3	7	5	4	4	
<hr/>											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	
<hr/>											
Pancreatic, Ectasia											2 1.5
Pancreatic, Pigmentation											1 3.0
Renal, Pigmentation											3 3.0
<hr/>											
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	60
Ectasia		3			3			2			7 2.3
Hemorrhage	1								1		11 1.2
Hyperplasia, Lymphoid											8 2.8
Pigmentation											6 2.0
<hr/>											
Lymph Node, Mediastinal											2
<hr/>											
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	60
Ectasia		2									8 2.5
Hyperplasia, Lymphoid								3			3 2.3
<hr/>											
Spleen	+	+	+	+	+	+	+	+	+	+	60
Fibrosis		3			2			3			15 2.5
Hematopoietic Cell Proliferation				2				2	2		15 2.2
Pigmentation										1	9 2.0
<hr/>											
Thymus	+	+	+	+	+	+	+	+	+	+	58
<hr/>											
INTEGUMENTARY SYSTEM											
<hr/>											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	58
Hyperplasia		3			4			2			23 2.5
<hr/>											

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 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

Skin	+	+	+	+	+	+	+	+	+	+	60
Cyst Epithelial Inclusion											3
Hyperkeratosis									4		4 2.8
Ulcer								3			2 3.5
Epidermis, Hyperplasia								3	4		5 3.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	60
Fibrous Osteodystrophy		3			1						2 2.0
Hyperostosis											1 2.0
Skeletal Muscle											1

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	60
Developmental Malformation											8
Hydrocephalus											2 2.0
Peripheral Nerve											1
Spinal Cord											1

RESPIRATORY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 26

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	3	7	4	5	7	7	3	6	7	7	
	5	2	8	9	3	3	5	1	3	3	
	7	2	1	0	3	3	7	5	4	4	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	
											* TOTALS
Lung	+	+	+	+	+	+	+	+	+	+	60
Edema											1 1.0
Hemorrhage											2 2.0
Infiltration Cellular, Histiocyte		1	1			2	1				19 1.2
Inflammation, Subacute					1						2 1.0
Alveolar Epithelium, Hyperplasia								2			4 2.5
.....											
Nose	+	+	+	+	+	+	+	+	+	+	60
Exudate		3									8 3.0
Foreign Body											2
Mucosa, Hyperplasia		1									5 1.6
Mucosa, Metaplasia, Squamous											7 2.7
.....											
Trachea	+	+	+	+	+	+	+	+	+	+	60
.....											
SPECIAL SENSES SYSTEM											
.....											
Ear											2
.....											
Eye											1
Cataract											1 3.0
Retina, Degeneration											1 3.0
.....											
URINARY SYSTEM											
.....											
Kidney	+	+	+	+	+	+	+	+	+	+	60
Cyst											1 3.0
Mineralization	2										6 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

Page 27

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0		
	3	7	4	5	7	7	3	6	7	7		
	5	2	8	9	3	3	5	1	3	3		
	7	2	1	0	3	3	7	5	4	4		
.....												
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
UNTREATDCONTROL	0	0	0	0	0	0	0	0	0	0		
	5	5	5	5	5	5	5	5	5	5		
	1	2	3	4	5	6	7	8	9	0		
												* TOTALS
Nephropathy	2	4	2	1	4	2	1	3	3	2		60 2.1
Renal Tubule, Pigmentation												18 2.1
Transitional Epithelium, Hyperplasia		2			2				1			11 1.3
.....												
Urinary Bladder	+	+	+	+	+	+	+	+	+	+		60
Transitional Epithelium, Hyperplasia												1 2.0

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

Page 28

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0																								
	6	6	3	5	7	6	7	7	3	5	3	7	5	5	5	3	7	7	7	7	7	7	3	7	3
5	1	5	5	3	4	3	3	5	0	5	3	4	9	0	5	3	2	3	1	3	3	5	1	5	
8	1	7	8	3	2	3	3	7	9	7	3	6	3	9	7	3	7	3	9	3	3	7	6	7	
FISCHER 344 RATS MALE 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	
0.05%	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	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...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Intestine Large, Cecum Edema Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
				X																					
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+
											X	X													
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+
Intestine Small, Duodenum Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	2	+	+
Intestine Small, Ileum Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	+	+	+
Intestine Small, Jejunum Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	+	+	+
Liver Angiectasis Basophilic Focus Clear Cell Focus Degeneration, Cystic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
																							4	3	
							X				X					X		X	X	X	X				
				1			3	3				3					X	X	X	X		1		3	

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 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																										
	6 6 3 5 7 6 7 7 3 5 3 7 5 5 5 3 7 7 7 7 7 7 3 7 3																										
FISCHER 344 RATS MALE 0.05% ANIMAL ID	5 1 5 5 3 4 3 3 5 0 5 3 4 9 0 5 3 2 3 1 3 3 5 1 5																										
	8 1 7 8 3 2 3 3 7 9 7 3 6 3 9 7 3 7 3 9 3 3 7 6 7																										
0.05% 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																										
0.05% ANIMAL ID	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																										
	6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8																										
																									males (cont...)		
Eosinophilic Focus	X			X			X																				
Granuloma																1											
Hepatodiaphragmatic Nodule Inflammation, Subacute																X											
Mixed Cell Focus				X						X			X			1			X			X					
Necrosis, Focal	1	1	4						1			X			1			X									
Thrombosis																											
Bile Duct, Hyperplasia	2	1	1																		2		2				
Bile Duct, Pigmentation	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Centrilobular, Atrophy	3	2																		3			2		2		
Hepatocyte, Cytologic Alterations					2		2		1		1		2		1			2		2		3		1		1	
Hepatocyte, Pigmentation					1		1		1		1		1		1		1		1		1		1		1		
Kupffer Cell, Pigmentation	2	2	1																		1		3				
Mesentery									+				+		+		+									+	
Angiectasis																											
Fat, Necrosis									3				4		3		3									2	
Oral Mucosa	+																										
Pancreas	+																										
Atrophy	1					1		1		1		3		2		1		1		2		1		1		1	
Basophilic Focus																					X						
Edema					1																	2		1		1	
Acinar Cell, Cytoplasmic Alteration																4											
Acinar Cell, Hyperplasia, Focal											2					3											
Salivary Glands	+																										
Atrophy																											
Edema											2																

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																								
	6 6 3 5 7 6 7 7 3 5 3 7 5 5 5 3 7 7 7 7 7 7 3 7 3																								
FISCHER 344 RATS MALE 0.05% ANIMAL ID	5 1 5 5 3 4 3 3 5 0 5 3 4 9 0 5 3 2 3 1 3 3 5 1 5																								
	8 1 7 8 3 2 3 3 7 9 7 3 6 3 9 7 3 7 3 9 3 3 7 6 7																								
0.05% 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																								
0.05% ANIMAL ID	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																								
	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																								
0.05% ANIMAL ID	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...)																								

Stomach, Forestomach	+ + + + + + + + + + + + + + + + + + + + + + + + + + +																								
Edema																									
Ulcer	2																								
Mucosa, Hyperplasia	3 2																								
	3 1 2																								
Stomach, Glandular	+ + + + + + + + + + + + + + + + + + + + + + + + + + +																								
Edema																									
Tongue																									
Tooth																									
Necrosis																									

CARDIOVASCULAR SYSTEM

Blood Vessel	+ + + + + + + + + + + + + + + + + + + + + + + + + + +																								
Hypertrophy	4																								
Inflammation, Subacute	3																								
Thrombosis	3 4 2 1																								
Heart	+ + + + + + + + + + + + + + + + + + + + + + + + + + +																								
Cardiomyopathy	2 1 1 3 3 2 3 1 1 1 2 2 3 1																								

ENDOCRINE SYSTEM

Adrenal Cortex	+ + + + + + + + + + + + + + + + + + + + + + + + + + +																								
----------------	-------------------------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	3	5	7	6	7	7	3	5	3	7	5	5	5	3	7	7	7	7	7	3	7	3	
	5	1	5	5	3	4	3	3	5	0	5	3	4	9	0	5	3	2	3	1	3	3	5	1	5
	8	1	7	8	3	2	3	3	7	9	7	3	6	3	9	7	3	7	3	9	3	3	7	6	7
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
0.05%	0	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	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8
	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
Accessory Adrenal Cortical Nodule Degeneration, Fatty Hyperplasia, Focal Hypertrophy, Focal Necrosis	2 2				1	3	3	2		2				1				1		1				3	
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland Hyperplasia	+	+	+	M	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+	
Pituitary Gland Pars Distalis, Angiectasis Pars Distalis, Cyst Pars Distalis, Hyperplasia, Focal Pars Intermedia, Angiectasis Pars Intermedia, Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	3	+	+	+	+	+	+	+	+	+	+	
Thyroid Gland Ultimobranchial Cyst C-cell, Hyperplasia Follicle, Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	1							1						3											
					3																				

males
(cont...)

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 2) Mild 4) Marked
 Page 32

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																								
	6 6 3 5 7 6 7 7 3 5 3 7 5 5 5 3 7 7 7 7 7 7 3 7 3																								
FISCHER 344 RATS MALE 0.05% ANIMAL ID	5 1 5 5 3 4 3 3 5 0 5 3 4 9 0 5 3 2 3 1 3 3 5 1 5																								
	8 1 7 8 3 2 3 3 7 9 7 3 6 3 9 7 3 7 3 9 3 3 7 6 7																								
0.05% 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																								
0.05% ANIMAL ID	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																								
	6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8																								
																									males (cont...)

Peritoneum +

GENITAL SYSTEM

Epididymis	+ + + + + + + + + + + + + + + + + + + + + + + + +																								
Atypia Cellular	3 3 3 X 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3																								
Edema	2																								
Hypospermia	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																								
Preputial Gland	+ + + + + + + + + + + + + + + + + + + + + + + + +																								
Cyst	3 4 3																								
Inflammation, Suppurative	2 2 3 2																								
Inflammation, Chronic	2 2 1 2 2																								
Prostate	+ + + + + + + + + + + + + + + + + + + + + + + + +																								
Corpora Amylacea	2 2 2 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2																								
Edema																									
Inflammation, Suppurative	1 1 3 3 2 2 3 1 2 1 4 1 2 1 1 2 1 1 1 2 1 2 1 2 1																								
Epithelium, Hyperplasia	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																								
Seminal Vesicle	+ + + + + + + + + + + + + + + + + + + + + + + + +																								
Edema	2																								
Testes	+ + + + + + + + + + + + + + + + + + + + + + + + +																								
Interstitial Cell, Hyperplasia	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																								
Seminiferous Tubule, Atrophy	4																								

HEMATOPOIETIC SYSTEM

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

TDMS No. 05128 - 06

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

D & C YELLOW NO. 11

CAS Number: 8003-22-3

Date Report Requested: 06/07/2007

Time Report Requested: 11:47:58

First Dose M/F: 04/26/90 / 04/26/90

Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FISCHER 344 RATS MALE 0.05% ANIMAL ID		6	6	3	5	7	6	7	7	3	5	3	7	5	5	5	3	7	7	7	7	7	3	7	3	
		5	1	5	5	3	4	3	3	5	0	5	3	4	9	0	5	3	2	3	1	3	3	5	1	5
		8	1	7	8	3	2	3	3	7	9	7	3	6	3	9	7	3	7	3	9	3	3	7	6	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

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia							3																		
Myelofibrosis																									
Lymph Node		+		+							+		+	+			+	+			+			+	
Mediastinal, Hemorrhage																									
Mediastinal, Pigmentation									3				2				3				3				
Pancreatic, Hemorrhage																	1								
Pancreatic, Pigmentation																	3								
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Ectasia	2												2				2								
Hemorrhage						2		2											2						
Hyperplasia, Lymphoid					2	2	2	2				3				2					3	2			
Pigmentation	2		2											2							2				2
Lymph Node, Mediastinal																									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia													2												
Hyperplasia, Lymphoid													2								3				
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Congestion																									
Fibrosis	2							3						2	4						3	2			2
Hematopoietic Cell Proliferation						3		2								3	3				2				
Necrosis																									
Pigmentation																					2				2

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+ .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

	DAY ON TEST																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	6	6	3	5	7	6	7	7	3	5	3	7	5	5	5	3	7	7	7	7	7	3	7	3		
	5	1	5	5	3	4	3	3	5	0	5	3	4	9	0	5	3	2	3	1	3	3	5	1	5	
	8	1	7	8	3	2	3	3	7	9	7	3	6	3	9	7	3	7	3	9	3	3	7	6	7	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0.05%	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		
	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8		
	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...)

Thymus + + + + + M + + + M + + + + + + + + + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland
 Hyperplasia + + + + + + + + + + + M + + + + + + + + + + + + + + + +

Skin
 Cyst Epithelial Inclusion + + + + + + + + + + + + + + + + + + + + + + + + + + + +

Hyperkeratosis + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +

Epidermis, Hyperplasia + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +

Subcutaneous Tissue, Edema + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +

MUSCULOSKELETAL SYSTEM

Bone
 Fibrous Osteodystrophy + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +

Skeletal Muscle
 Edema + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +

NERVOUS SYSTEM

Brain
 Developmental Malformation + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +

* .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	6	3	5	7	6	7	7	3	5	3	7	5	5	3	7	7	7	7	7	3	7	3	7	3	
		5	1	5	5	3	4	3	3	5	0	5	3	4	9	0	5	3	2	3	1	3	3	5	1	5	
		8	1	7	8	3	2	3	3	7	9	7	3	6	3	9	7	3	7	3	9	3	3	7	6	7	
FISCHER 344 RATS MALE 0.05%	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
		6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8
		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...)

Peripheral Nerve

+

Spinal Cord

+

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema					1								2											1	
Hemorrhage	2																								
Infiltration Cellular, Histiocyte				1			1		1									1				1			
Inflammation, Subacute																							2	2	
Alveolar Epithelium, Hyperplasia																	2						3		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Exudate																									
Mucosa, Hyperplasia																						2			
Mucosa, Metaplasia, Squamous																									
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Ear

URINARY SYSTEM

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	3	5	7	6	7	7	3	5	3	7	5	5	5	3	7	7	7	7	7	7	3	7	3		
	5	1	5	5	3	4	3	3	5	0	5	3	4	9	0	5	3	2	3	1	3	3	5	1	5		
	8	1	7	8	3	2	3	3	7	9	7	3	6	3	9	7	3	7	3	9	3	3	7	6	7		
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
0.05%	0	0	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	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	
	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...)	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst						3														3							
Hydronephrosis													3														
Inflammation, Suppurative																											
Nephropathy	3	3	2	3	4	3	3	3	2	2	3	3	2	3	3	1	3	3	3	4	3	4	1	4	2		
Renal Tubule, Pigmentation	3	1		3		1	1			1	1	1	3	2	1	1	1	3	2		2	2	1		1		
Transitional Epithelium, Hyperplasia	2			2		3	1	1						1					2			2			2		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Transitional Epithelium, Hyperplasia				2																							

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 37

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	7	6	5	5	7	6	7	7	5	7	5	7	2	3	6	5	7	5	7	6	7	7
	7	8	7	3	9	7	5	3	2	3	2	6	1	7	3	2	5	5	4	3	8	3	2	3	1
	2	8	7	3	5	5	8	3	8	3	6	0	9	0	3	2	7	6	5	3	6	3	8	3	2
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.05%	0	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
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	1
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

males
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema	1		2		2																			
Parasite Metazoan																								X
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan	X																							
Intestine Large, Rectum	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan			X																					
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Hyperplasia																								3
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+
Epithelium, Hyperplasia																								3
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+
Epithelium, Hyperplasia																								3
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis			3	3																				
Basophilic Focus								X		X									X		X			
Clear Cell Focus								X		X									X				X	
Degeneration, Cystic	3			4	2	2	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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0																							
	6	6	6	7	6	5	5	7	6	7	7	5	7	5	7	2	3	6	5	7	5	7	7	
FISCHER 344 RATS MALE 0.05% ANIMAL ID	0																						males (cont...)	
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		9
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Eosinophilic Focus	X			X																	X	X		
Granuloma																1								
Hepatodiaphragmatic Nodule Inflammation, Subacute	X																							
Mixed Cell Focus				X																	X	X		
Necrosis, Focal			1				1				1		1		1									
Thrombosis				4	1														1	1				
Bile Duct, Hyperplasia	3	1	2	2	1	2	1		1			1	1	2	2				1	1		1	1	1
Bile Duct, Pigmentation	1	2	2				1	1	1	1	1		1	1	1	1	1	1	1	1	2	1	1	1
Centrilobular, Atrophy		2	2		3	2	2												2		2			
Hepatocyte, Cytologic Alterations				2						2	2			1	3		1			2		3	2	
Hepatocyte, Pigmentation		1	1		1				1		1	1							1				1	1
Kupffer Cell, Pigmentation		2				3		1						2			3			3		3	1	2
Mesentery	+			+				+			+										+			
Angiectasis	4																							
Fat, Necrosis	3			3				2				3									3			
Oral Mucosa																								+
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy		1	2		2	4	2	2	1		2		1	1	1				1				1	1
Basophilic Focus																								
Edema	1		1		2								1							2		2		
Acinar Cell, Cytoplasmic Alteration								3						3									4	
Acinar Cell, Hyperplasia, Focal																								
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy				2																				
Edema																								

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	7	6	5	5	7	6	7	7	5	7	5	7	2	3	6	5	7	5	7	6	7	7
	7	8	7	3	9	7	5	3	2	3	2	6	1	7	3	2	5	5	4	3	8	3	2	3	1
	2	8	7	3	5	5	8	3	8	3	6	0	9	0	3	2	7	6	5	3	6	3	8	3	2
FISCHER 344 RATS MALE 0.05% 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
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

males (cont...)

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema	3		1		3							2		2				2					3	
Ulcer					2																		4	
Mucosa, Hyperplasia	2			2	2								1										3	

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema			1									2												

Tongue

Tooth
Necrosis

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hypertrophy											3							2						
Inflammation, Subacute																								
Thrombosis																								

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	3	3		3	2	2	1						1	2	3			3	1		3	2	3	1

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0																								males (cont...)					
	6	6	6	7	6	5	5	7	6	7	7	5	7	5	7	2	3	6	5	7	5	7	6	7		7				
FISCHER 344 RATS MALE ANIMAL ID	0																								males (cont...)					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0			
0.05%	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0					
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0						
Accessory Adrenal Cortical Nodule Degeneration, Fatty Hyperplasia, Focal Hypertrophy, Focal Necrosis	2				2				1				1			2			2		1		X	X					3	
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+																							
Islets, Pancreatic	3		3		3																									
Parathyroid Gland Hyperplasia	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland Pars Distalis, Angiectasis Pars Distalis, Cyst Pars Distalis, Hyperplasia, Focal Pars Intermedia, Angiectasis Pars Intermedia, Cyst	3		3																											
Thyroid Gland Ultimobranchial Cyst C-cell, Hyperplasia Follicle, Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	1						2																							
	3																													

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	6	6	7	6	5	5	7	6	7	7	5	7	5	7	2	3	6	5	7	5	7	6	7	7
		7	8	7	3	9	7	5	3	2	3	2	6	1	7	3	2	5	5	4	3	8	3	2	3	1
		2	8	7	3	5	5	8	3	8	3	6	0	9	0	3	2	7	6	5	3	6	3	8	3	2
FISCHER 344 RATS MALE	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
0.05%		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	1
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

males
(cont...)

Peritoneum

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atypia Cellular	3			3			3		3	3		3	3	3				3	3		3			3	3
Edema	1				2																				
Hypospermia	3	3	3	3				3	3	3		3	3	3	3		3		3		3		3	3	3
Preputial Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																									
Inflammation, Suppurative																									
Inflammation, Chronic				3																					
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Corpora Amylacea			2	2	2			2		3	2		3	2			3		2	2	2	2	3	3	3
Edema					2																				
Inflammation, Suppurative	2			2		1			2		3		2			2			1	2					
Epithelium, Hyperplasia												2													
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema																									
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Interstitial Cell, Hyperplasia											2	1					1		1						
Seminiferous Tubule, Atrophy	4									3							3								

HEMATOPOIETIC SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0																							
	6	6	6	7	6	5	5	7	6	7	7	5	7	5	7	2	3	6	5	7	5	7	6	7
7	8	7	3	9	7	5	3	2	3	2	6	1	7	3	2	5	5	4	3	8	3	2	3	1
2	8	7	3	5	5	8	3	8	3	6	0	9	0	3	2	7	6	5	3	6	3	8	3	2
FISCHER 344 RATS MALE ANIMAL ID 0.05%	0																							
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

males
(cont...)

Bone Marrow	+ + + + + + + + + + + + + + + + + + + + + + + +																							
Hyperplasia																								
Myelofibrosis	4												3											
Lymph Node	+ + + + + + + + + + + + + + + + + + + + + + + +																							
Mediastinal, Hemorrhage																								
Mediastinal, Pigmentation	3												3											
Pancreatic, Hemorrhage																								
Pancreatic, Pigmentation	3												3											
Lymph Node, Mandibular	+ + + + + + + + + + + + + + + + + + + + + + + +																							
Ectasia																								
Hemorrhage	1												3											
Hyperplasia, Lymphoid																								
Pigmentation																								
Lymph Node, Mediastinal	+ +																							
Lymph Node, Mesenteric	+ + + + M + + + + + + + + + + + + + + + + + + + + +																							
Ectasia																								
Hyperplasia, Lymphoid																								
Spleen	+ + + + + + + + + + + + + + + + + + + + + + + +																							
Congestion																								
Fibrosis	3			2			3			2			1			3			3			3		
Hematopoietic Cell Proliferation	3			3			1			2			2			2			2					
Necrosis																								
Pigmentation	2						2						2						2					

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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 Page 43
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	6	6	7	6	5	5	7	6	7	7	5	7	5	7	2	3	6	5	7	5	7	6	7	7	
	7	8	7	3	9	7	5	3	2	3	2	6	1	7	3	2	5	5	4	3	8	3	2	3	1	
	2	8	7	3	5	5	8	3	8	3	6	0	9	0	3	2	7	6	5	3	6	3	8	3	2	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.05%	0	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	
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	1	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

males
(cont...)

Thymus + + + + + + + + + + + + + + + + + + + + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland
 Hyperplasia + + + + + + + + + + + + + + + M + + + + + M + +
 1 3 2 4 3

Skin
 Cyst Epithelial Inclusion + + + + + I + + + + + + + + + I + + + + + X
 Hyperkeratosis 3 3
 Epidermis, Hyperplasia 3 3
 Subcutaneous Tissue, Edema

MUSCULOSKELETAL SYSTEM

Bone
 Fibrous Osteodystrophy + + + + + + + + + + + + + + + + + + + + + + + + + + +
 3 1 3

Skeletal Muscle
 Edema +

NERVOUS SYSTEM

Brain
 Developmental Malformation + + + + + + + + + + + X + + + + + + + + + + + X + + + + +

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 I .. Insufficient tissue
 M .. Missing tissue
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 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	6	6	7	6	5	5	7	6	7	7	5	7	5	7	2	3	6	5	7	5	7	6	7	7
	7	8	7	3	9	7	5	3	2	3	2	6	1	7	3	2	5	5	4	3	8	3	2	3	1
	2	8	7	3	5	5	8	3	8	3	6	0	9	0	3	2	7	6	5	3	6	3	8	3	2
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.05%	0	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
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	1
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

males
(cont...)

Peripheral Nerve +
 Spinal Cord +

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema												1						3						
Hemorrhage		1																						
Infiltration Cellular, Histiocyte		1	1	3	2					1								2				1	1	
Inflammation, Subacute							1									1								
Alveolar Epithelium, Hyperplasia				2	2		2																	1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Exudate		3			3	3									3									3
Mucosa, Hyperplasia		1			2	1									3									
Mucosa, Metaplasia, Squamous		1			2	1																		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Ear +

URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 M .. Missing tissue
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 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 45

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0																								males (cont...)	
	6	6	6	7	6	5	5	7	6	7	7	5	7	5	7	2	3	6	5	7	5	7	6	7		7
	7	8	7	3	9	7	5	3	2	3	2	6	1	7	3	2	5	5	4	3	8	3	2	3	1	
	2	8	7	3	5	5	8	3	8	3	6	0	9	0	3	2	7	6	5	3	6	3	8	3	2	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
0.05%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	1	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cyst																3							3			
Hydronephrosis																										
Inflammation, Suppurative			1																							
Nephropathy	2	2	2	2	2	3	2	2	3	4	4	2	2	3	4	2	2	3	2	3	2	4	4	2	2	
Renal Tubule, Pigmentation	2	1	2	2	4	2	1	1	3	1	1	1	3	2	1		1	3	2	2	3	1		1	3	
Transitional Epithelium, Hyperplasia		2	1			2			1	2					3					2		2	2			
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Transitional Epithelium, Hyperplasia																										

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 + .. Tissue examined microscopically
 x .. Lesion present
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 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 46

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	3	7	7	7	7	6	5	3	7	6
	5	3	3	3	3	0	1	5	3	5
	7	3	3	3	4	2	0	7	4	6
.....										
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.05%	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	M	57	
Intestine Large, Cecum	+	+	+	+	+	M	+	+	+	+	59	
Edema										2		4 1.8
Parasite Metazoan												2
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	59	
Parasite Metazoan						X						4
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	58	
Parasite Metazoan												1
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	60	
Epithelium, Hyperplasia						3						4 2.5
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	59	
Epithelium, Hyperplasia						3						3 2.7
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	59	
Epithelium, Hyperplasia						2						3 2.3
Liver	+	+	+	+	+	+	+	+	+	+	60	
Angiectasis						2						6 3.0
Basophilic Focus			X	X								9
Clear Cell Focus		X	X	X					X			15
Degeneration, Cystic			2	4					1			19 2.2

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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	3	7	7	7	7	6	5	3	7	6													
	5	3	3	3	3	0	1	5	3	5													
	7	3	3	3	4	2	0	7	4	6													
.....																							
FISCHER 344 RATS MALE	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			
0.05%	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	1	1	2			
	1	2	3	4	5	6	7	8	9	0													
																				* TOTALS			
.....																							
Eosinophilic Focus																				7			
Granuloma																				2	1.0		
Hepatodiaphragmatic Nodule																				2			
Inflammation, Subacute	1																			2	1.0		
Mixed Cell Focus									X											10			
Necrosis, Focal		4																		11	1.5		
Thrombosis																				4	1.8		
Bile Duct, Hyperplasia					2															26	1.5		
Bile Duct, Pigmentation	1	1						1	1	1	1									47	1.1		
Centrilobular, Atrophy					2															17	2.4		
Hepatocyte, Cytologic Alterations	1	2	2	2				2	1	2										28	1.8		
Hepatocyte, Pigmentation		1					1	1												23	1.0		
Kupffer Cell, Pigmentation		1																		15	2.0		
.....																							
Mesentery																				12			
Angiectasis																					1	4.0	
Fat, Necrosis					3															3	12	2.9	
.....																							
Oral Mucosa																					2		
.....																							
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	60			
Atrophy	1		2	1	3			2													32	1.5	
Basophilic Focus					X																3		
Edema																					10	1.4	
Acinar Cell, Cytoplasmic Alteration								4													5	3.6	
Acinar Cell, Hyperplasia, Focal								2													3	2.3	
.....																							
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	60			
Atrophy																						1	2.0
Edema																						1	2.0

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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	3	7	7	7	7	6	5	3	7	6
	5	3	3	3	3	0	1	5	3	5
	7	3	3	3	4	2	0	7	4	6
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.05%	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	60
Edema											10 2.3
Ulcer											3 3.0
Mucosa, Hyperplasia			1	1		3					13 1.8
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	60
Edema											2 1.5
Tongue	+										1
Tooth		+									1
Necrosis		4									1 4.0

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	60
Hypertrophy											3 3.0
Inflammation, Subacute											2 2.5
Thrombosis											3 2.7
Heart	+	+	+	+	+	+	+	+	+	+	60
Cardiomyopathy			2	3	1			2	2	3	35 2.1

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	60
----------------	---	---	---	---	---	---	---	---	---	---	-----------

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 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 49

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	7	7	7	7	6	5	3	7	6				
	5	3	3	3	3	0	1	5	3	5				
	7	3	3	3	4	2	0	7	4	6				
<hr/>														
FISCHER 344 RATS MALE	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
0.05%	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
	1	2	3	4	5	6	7	8	9	0				
														* TOTALS
Accessory Adrenal Cortical Nodule					2						2			21 1.9
Degeneration, Fatty														5 1.4
Hyperplasia, Focal														1 2.0
Hypertrophy, Focal														2 1.5
Necrosis														1 2.0
<hr/>														
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	59
Hyperplasia					3	2							2	20 2.2
<hr/>														
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	60
<hr/>														
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	55
Hyperplasia						2							2	9 2.2
<hr/>														
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	59
Pars Distalis, Angiectasis														2 2.5
Pars Distalis, Cyst														6 3.0
Pars Distalis, Hyperplasia, Focal														7 2.3
Pars Intermedia, Angiectasis														1 3.0
Pars Intermedia, Cyst														2 3.0
<hr/>														
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	60
Ultimobranchial Cyst					3									4 3.0
C-cell, Hyperplasia														6 1.7
Follicle, Cyst														2 3.0

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	3	7	7	7	7	6	5	3	7	6
	5	3	3	3	3	0	1	5	3	5
	7	3	3	3	4	2	0	7	4	6
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.05%	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
* TOTALS										

Peritoneum 1

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	60		
Atypia Cellular			3	3	3				3			28	3.0
Edema												3	1.7
Hyospermia		3	3	3	3				3	3		37	3.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	59		
Cyst										3		4	3.3
Inflammation, Suppurative					4							5	2.6
Inflammation, Chronic							2		2			9	2.0
Prostate	+	+	+	+	+	+	+	+	+	+	60		
Corpora Amylacea			3		2	2		2				29	2.3
Edema										1		2	1.5
Inflammation, Suppurative	1				1	2	2					29	1.8
Epithelium, Hyperplasia												5	1.2
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	60		
Edema												1	2.0
Testes	+	+	+	+	+	+	+	+	+	+	60		
Interstitial Cell, Hyperplasia								1				8	1.1
Seminiferous Tubule, Atrophy												4	3.5

HEMATOPOIETIC SYSTEM

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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	3	7	7	7	7	6	5	3	7	6	
	5	3	3	3	3	0	1	5	3	5	
	7	3	3	3	4	2	0	7	4	6	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
0.05%	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
Bone Marrow	+	+	+	+	+	+	+	+	+	+	60
Hyperplasia											1 3.0
Myelofibrosis									3		3 3.3
Lymph Node			+				+	+	+		25
Mediastinal, Hemorrhage			2				2	3			5 2.0
Mediastinal, Pigmentation			4					3			11 2.9
Pancreatic, Hemorrhage											1 1.0
Pancreatic, Pigmentation											3 3.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	59
Ectasia		3	3								8 2.5
Hemorrhage											4 1.8
Hyperplasia, Lymphoid	3	4		3		2					13 2.5
Pigmentation											6 2.0
Lymph Node, Mediastinal							+				3
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	59
Ectasia											1 2.0
Hyperplasia, Lymphoid											2 2.5
Spleen	+	+	+	+	+	+	+	+	+	+	60
Congestion											1 2.0
Fibrosis			3								16 2.6
Hematopoietic Cell Proliferation								2			12 2.3
Necrosis											1 3.0
Pigmentation		1	2	2							12 1.9

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TDMS No. 05128 - 06
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 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	3	7	7	7	7	6	5	3	7	6
	5	3	3	3	3	0	1	5	3	5
	7	3	3	3	4	2	0	7	4	6
.....										
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.05%	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

Thymus	+	+	+	+	+	+	+	+	+	+	58
--------	---	---	---	---	---	---	---	---	---	---	-----------

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	57
Hyperplasia					2	2					11 2.5
Skin	+	+	+	+	+	+	+	+	+	+	58
Cyst Epithelial Inclusion											1
Hyperkeratosis											3 3.0
Epidermis, Hyperplasia				4	1						5 2.8
Subcutaneous Tissue, Edema											1 4.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	60
Fibrous Osteodystrophy				1	1						8 1.6
Skeletal Muscle											2
Edema											1 2.0

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	60
Developmental Malformation											4

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 Page 53

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	3	7	7	7	7	6	5	3	7	6
	5	3	3	3	3	0	1	5	3	5
	7	3	3	3	4	2	0	7	4	6
.....										
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
0.05%	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

Peripheral Nerve	2
Spinal Cord	2

RESPIRATORY SYSTEM

Lung	+ + + + + + + + + +	60	
Edema			6 1.5
Hemorrhage			2 1.5
Infiltration Cellular, Histiocyte		1 3	15 1.4
Inflammation, Subacute	1 3	1	7 1.6
Alveolar Epithelium, Hyperplasia			6 2.0
.....			
Nose	+ + + + + + + + + +	60	
Exudate		3 3	7 3.0
Mucosa, Hyperplasia		3 1 1	8 1.8
Mucosa, Metaplasia, Squamous		1	4 1.3
.....			
Trachea	+ + + + + + + + + +	60	

SPECIAL SENSES SYSTEM

Ear	1
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URINARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Page 54

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
	3	7	7	7	7	6	5	3	7	6	
	5	3	3	3	3	0	1	5	3	5	
	7	3	3	3	4	2	0	7	4	6	
.....											
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
0.05%	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	
.....											
Kidney	+	+	+	+	+	+	+	+	+	+	60
Cyst			3	3							6 3.0
Hydronephrosis							4				2 3.5
Inflammation, Suppurative											1 1.0
Nephropathy	2	2	3	4	2	4	1	2	3	3	60 2.7
Renal Tubule, Pigmentation	1	1	1		2	2		1	1	2	50 1.7
Transitional Epithelium, Hyperplasia				1	1	2			2	2	23 1.8
.....											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	60
Transitional Epithelium, Hyperplasia											1 2.0

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 Page 55

TDMS No. 05128 - 06
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 Species/Strain: RATS/F 344

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 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	3	7	3	7	4	6	6	7	7	6	3	6	6	3	6	7	6	4	7	3	6	3	6	5
	3	5	2	5	3	9	9	4	3	1	6	5	8	4	5	1	3	5	5	1	5	8	5	9	5
	3	7	7	7	3	1	9	9	3	4	3	7	6	9	7	0	3	9	3	2	7	6	7	5	1
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
0.17%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
	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...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema												3	1										2	
Parasite Metazoan						X					X													
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema																								
Parasite Metazoan				X	X		X				X					X								
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan																							X	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Erosion																							3	
Epithelium, Hyperplasia			3	2			4	2	2		3	2		3				3			3			
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Hyperplasia			2				3							2				2						
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Hyperplasia			2				3					2						2						
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis					2	2			2	2			2									2		
Basophilic Focus					X																			

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 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																									0
	7 3 7 3 7 4 6 6 7 7 6 3 6 6 3 6 7 6 4 7 3 6 3 6 5																									
FISCHER 344 RATS MALE ANIMAL ID	3 5 2 5 3 9 9 4 3 1 6 5 8 4 5 1 3 5 5 1 5 8 5 9 5																									5
	3 7 7 7 3 1 9 9 3 4 3 7 6 9 7 0 3 9 3 2 7 6 7 5 1																									
0.17%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																									0
	0 0 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
	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
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																									5
																										males (cont...)
Clear Cell Focus			X	X			X	X				X		X	X					X						
Cyst	3																									
Degeneration, Cystic								2					2		1	1										
Developmental Malformation																										
Eosinophilic Focus								X												X				X		
Granuloma																									1	
Hematopoietic Cell Proliferation							3																			
Inflammation, Subacute				1										1											1	
Mixed Cell Focus								X	X																	
Necrosis, Focal																										
Thrombosis																										
Bile Duct, Hyperplasia				1						1	3			1						2				2		
Bile Duct, Pigmentation	3	1	2	1	2	2	2	1	1	2	1	1	3	2	1	2	1	1	2	2	1	2	1	2	2	
Centrilobular, Atrophy												2							3	2						
Hepatocyte, Cytologic Alterations	2	1	3	1	2	2	2	3	2	2	2	2	3	2	2	2	3			2	2	3	1			
Hepatocyte, Pigmentation	3	1	2	1	2	1	2	2	2	2		1	2	3	1	1	1	1	1	3	1	2		1		
Hepatocyte, Vacuolization Cytoplasmic																										
Kupffer Cell, Pigmentation			2					1	2	2			3	2		1						2		2		
Mesentery																										
Fat, Necrosis																										
Oral Mucosa																										
Pancreas																										
Atrophy	3	1					1	2	2	3		2				1			1			2				
Basophilic Focus	X																									
Edema				2					2		1	2			2				2	1				2	2	
Inflammation, Chronic					2																					
Acinar Cell, Cytoplasmic Alteration										3				3			3			3		3				
Acinar Cell, Hyperplasia, Focal								3					2	3												

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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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

DAY ON TEST	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																								
	7 3 7 3 7 4 6 6 7 7 6 3 6 6 3 6 7 6 4 7 3 6 3 6 5																								
FISCHER 344 RATS MALE 0.17% ANIMAL ID	3 5 2 5 3 9 9 4 3 1 6 5 8 4 5 1 3 5 5 1 5 8 5 9 5																								
	3 7 7 7 3 1 9 9 3 4 3 7 6 9 7 0 3 9 3 2 7 6 7 5 1																								
ANIMAL ID	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																								
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																								
0.17% ANIMAL ID	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								
	2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4																								
																									males (cont...)

Salivary Glands	+ + + + + + + + + + + + + + + + + + + + + + + + +																								
Atrophy																									
Basophilic Focus	2 1																								
Edema	1																								
Stomach, Forestomach	+ + + + + + + + + + + + + + + + + + + + + + + + +																								
Edema	3 1 2 2 2 3 2 2																								
Ulcer	3 4																								
Mucosa, Hyperplasia	2 4 3 4 3 3 4																								
Stomach, Glandular	+ + + + + + + + + + + + + + + + + + + + + + + + +																								
Edema	1 3																								
Erosion																									
Tongue																									
+	+																								
Tooth																									
Necrosis																									

CARDIOVASCULAR SYSTEM

Blood Vessel	+ + + + + + + + + + + + + + + + + + + + + + + + +																								
Thrombosis	4 3																								
Heart	+ + + + + + + + + + + + + + + + + + + + + + + + +																								
Cardiomyopathy	2 2 3 2 1 2 2 1 2 2 1 2 3 2 3																								
Thrombosis	2 2																								

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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		
DAY ON TEST		7	3	7	3	7	4	6	6	7	7	6	3	6	6	3	6	7	6	4	7	3	6	3	6	5
		3	5	2	5	3	9	9	4	3	1	6	5	8	4	5	1	3	5	5	1	5	8	5	9	5
		3	7	7	7	3	1	9	9	3	4	3	7	6	9	7	0	3	9	3	2	7	6	7	5	1
FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
0.17%		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	
		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...)

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ultimobranchial Cyst		X		X																					
C-cell, Hyperplasia																									
Follicle, Cyst	3																								

GENERAL BODY SYSTEM

Peritoneum +

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atypia Cellular	3		3		3	3	3		3			3					3								3
Edema							2							1											1
Granuloma Sperm													2												
Hypospermia	3		3			3	3	3	3	3			3	3			3	3	3				3	3	3
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst							3																		
Hyperplasia							2																		
Inflammation, Suppurative			1		2								1								2				
Inflammation, Chronic								2				2		2									2		2
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Corpora Amylacea				2		2		2	2	2	2		2	2		3			2	2		3			2
Edema																			2						
Inflammation, Suppurative			1	1	3	1	3		1	1	1		3	3	1	1		1	3		2	2		2	1
Epithelium, Hyperplasia			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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	3	7	3	7	4	6	6	7	7	6	3	6	6	3	6	7	6	4	7	3	6	3	6	5		
		3	5	2	5	3	9	9	4	3	1	6	5	8	4	5	1	3	5	5	1	5	8	5	9	5		
		3	7	7	7	3	1	9	9	3	4	3	7	6	9	7	0	3	9	3	2	7	6	7	5	1		
FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
0.17%		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	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
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		males (cont...)

Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Interstitial Cell, Hyperplasia																											
Seminiferous Tubule, Atrophy																											

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																											
Hyperplasia																											
Myelofibrosis																											
Lymph Node	+	+	+			+				+	+									+	+				+	+	
Hemorrhage																											
Hyperplasia, Lymphoid																											
Pigmentation																											
Axillary, Ectasia																											
Axillary, Hemorrhage																											
Axillary, Hyperplasia, Lymphoid																											
Axillary, Pigmentation																											
Deep Cervical, Hemorrhage																											
Deep Cervical, Hyperplasia, Lymphoid																											
Deep Cervical, Pigmentation																											
Iliac, Pigmentation																											
Inguinal, Hemorrhage																											
Inguinal, Hyperplasia, Lymphoid																											
Mediastinal, Ectasia																											

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	3	7	3	7	4	6	6	7	7	6	3	6	6	3	6	7	6	4	7	3	6	3	6	5	
	3	5	2	5	3	9	9	4	3	1	6	5	8	4	5	1	3	5	5	1	5	8	5	9	5	
	3	7	7	7	3	1	9	9	3	4	3	7	6	9	7	0	3	9	3	2	7	6	7	5	1	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
0.17%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	
	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	
Mediastinal, Hemorrhage	1										2									2				2		
Mediastinal, Hyperplasia, Lymphoid	2	2	1			2					2													3		
Mediastinal, Pigmentation			3			2					3	3								2			2	2		
Pancreatic, Hemorrhage									1																	
Pancreatic, Hyperplasia, Lymphoid									2																	
Pancreatic, Pigmentation	3								3																	
Renal, Hemorrhage																										
Renal, Hyperplasia, Lymphoid																										
Renal, Pigmentation																										
Lymph Node, Mandibular Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage	1		1								3								2						1	
Hyperplasia, Lymphoid	2		2			2	2		2	3			3												3	
Pigmentation									2												2		2	2		
Lymph Node, Mediastinal			+																		+					
Lymph Node, Mesenteric Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage					2									1											2	
Hyperplasia, Lymphoid			2					2												2						
Pigmentation																										
Spleen Congestion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosis	1				2					3	3	3			3				2			3				
Hematopoietic Cell Proliferation	2					3			2	2		2										3				
Pigmentation	2								3			3			3							2				

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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0																								
	7	3	7	3	7	4	6	6	7	7	6	3	6	6	3	6	7	6	4	7	3	6	3	6	5
3	5	2	5	3	9	9	4	3	1	6	5	8	4	5	1	3	5	5	1	5	8	5	9	5	
3	7	7	7	3	1	9	9	3	4	3	7	6	9	7	0	3	9	3	2	7	6	7	5	1	
FISCHER 344 RATS MALE ANIMAL ID 0.17%	0																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	
	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...)

Thymus + + + + + + + + + + + + + M + + + + + + + + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	+
					2					2	3											3	2		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																									
Hyperkeratosis	1																								
Epidermis, Hyperplasia	2							3	1																
Subcutaneous Tissue, Edema			3																						

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Osteodystrophy			1		1		2	3						2	2		2	2			3		3		
Hyperostosis																									3
Skeletal Muscle																									
Edema																									3

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Developmental Malformation																									
Hemorrhage																									

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 + .. Tissue examined microscopically
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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 Page 63

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0																								
	7	3	7	3	7	4	6	6	7	7	6	3	6	6	3	6	7	6	4	7	3	6	3	6	5
FISCHER 344 RATS MALE 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
0.17%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
	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...)

Hydrocephalus

Peripheral Nerve

Spinal Cord

RESPIRATORY SYSTEM

Lung	+																										
Cyst																											
Edema	1			1			1			2			1			2											
Infiltration Cellular, Histiocyte	1				1				1				1				1										
Inflammation, Subacute																			3		3						
Alveolar Epithelium, Hyperplasia																			3		3						
Nose	+																										
Exudate	3		3		3		3		3		3		3		3		3		3		3		3		3		
Foreign Body																								X			
Mucosa, Hyperplasia	2				2								2				3				2						
Mucosa, Metaplasia, Squamous																			3		4		2				
Trachea	+																										

SPECIAL SENSES SYSTEM

Ear

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TDMS No. 05128 - 06
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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	3	7	3	7	4	6	6	7	7	6	3	6	6	3	6	7	6	4	7	3	6	3	6	5	
	3	5	2	5	3	9	9	4	3	1	6	5	8	4	5	1	3	5	5	1	5	8	5	9	5	
	3	7	7	7	3	1	9	9	3	4	3	7	6	9	7	0	3	9	3	2	7	6	7	5	1	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
0.17%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	
	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...)

Zymbal's Gland

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst			3				3	3			3														
Infarct		1																							
Inflammation, Suppurative																									
Nephropathy	3	2	3	3	4	3	3	4	3	3	3	3	4	4	3	4	3	3	2	4	2	4	3	3	3
Renal Tubule, Hyperplasia																	1		4						
Renal Tubule, Pigmentation	2	2	2	2		3		2	2	2	3	2	2	3	2	2	3	4		2	1	1	2	2	
Transitional Epithelium, Hyperplasia			2		1		2	2			2		2	2		1	2	2		2		1		2	
Urethra																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transitional Epithelium, Hyperplasia								2																	

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DAY ON TEST	0																							
		6	6	6	7	7	6	7	6	6	6	3	4	3	6	7	6	6	6	7	6	6	6	7
	0	4	8	3	3	6	1	8	8	6	5	6	5	9	3	5	1	0	3	4	0	9	3	0
	0	6	0	3	3	3	9	6	6	7	7	8	7	5	3	0	5	0	3	6	7	2	1	6
FISCHER 344 RATS MALE ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7
0.17%	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

males
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema																									
Parasite Metazoan													3											2	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema																									
Parasite Metazoan								X										X		X					
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan							X					X												X	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Erosion																									
Epithelium, Hyperplasia	2					2	2	3					4		2							3	2	3	
Intestine Small, Ileum	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Hyperplasia	2												2		2							3		2	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Hyperplasia														2		2						3		2	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis			2	2	2																			2	
Basophilic Focus			X	X		X									X										

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TDMS No. 05128 - 06
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Date Report Requested: 06/07/2007
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 Lab: SRI

DAY ON TEST	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																								0
	6 6 6 7 7 6 7 6 6 6 3 4 3 6 7 6 6 7 6 6 6 6 7 4																								
FISCHER 344 RATS MALE 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																								
0.17%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								males (cont...)
	4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 7																								
	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																								
Clear Cell Focus				X		X	X									X				X					
Cyst																									3
Degeneration, Cystic			3				1			2						3								3	
Developmental Malformation																			X						
Eosinophilic Focus	X		X					X	X				X						X	X				X	
Granuloma																									
Hematopoietic Cell Proliferation	1		2											1											
Inflammation, Subacute							1		1					1										1	
Mixed Cell Focus			X						X					X			X	X			X				
Necrosis, Focal		3	1																						
Thrombosis																									
Bile Duct, Hyperplasia			1		1	2			1				1	1		2		1	1						
Bile Duct, Pigmentation	1	1	2	2	1	2	1	2	2	2	1	2	1	2	1	2	2	3	2	2	2	2	2	2	
Centrilobular, Atrophy																		3		2	2				
Hepatocyte, Cytologic Alterations	3	2	3	2		2	2	2	2	2		1	3	2	3	3		3	2	2	3	2	3	2	
Hepatocyte, Pigmentation	1		1	2	2	1	1	2	2	2	1		1	2	2	3	1		1	2	1	2	1	3	1
Hepatocyte, Vacuolization Cytoplasmic											3														
Kupffer Cell, Pigmentation		3			3	2		2					2			2	2		2				1	2	
Mesentery																									
Fat, Necrosis			+		+					+								+	+						
			3		3					4								2	3						
Oral Mucosa																								+	
Pancreas																									
Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus	1	2			1	1	2			2	2	1	2		1	1		1					2	1	
Edema							2							2			2							2	
Inflammation, Chronic																									
Acinar Cell, Cytoplasmic Alteration										3						3					3		3		
Acinar Cell, Hyperplasia, Focal					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
 Page 67

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																							
	6 6 6 7 7 6 7 6 6 6 3 4 3 6 7 6 6 6 7 6 6 6 7 4																							
FISCHER 344 RATS MALE 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																							
0.17%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																							
	4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 7																							
	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																							

males
(cont...)

Salivary Glands	+ M + + + + + + + + + + + + + + + + + + + + + + +																							
Atrophy	1 1																							
Basophilic Focus	X																							
Edema	2																							
Stomach, Forestomach	+ + + + + + + + + + + + + + + + + + + + + + +																							
Edema	3 4 2 3																							
Ulcer	4																							
Mucosa, Hyperplasia	2 1 3 2 3 1 3 2 3																							
Stomach, Glandular	+ + + + + + + + + + + + + + + + + + + + + + +																							
Edema	3 1 1																							
Erosion																								
Tongue																								
Tooth	+ + +																							
Necrosis	4 3																							

CARDIOVASCULAR SYSTEM

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

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TDMS No. 05128 - 06
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
D & C YELLOW NO. 11
CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
Time Report Reqsted: 11:47:58
First Dose M/F: 04/26/90 / 04/26/90
Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		6	6	6	7	7	6	7	6	6	6	3	4	3	6	7	6	6	6	7	6	6	6	6	7	4	4	0	0
		0	4	8	3	3	6	1	8	8	6	5	6	5	9	3	5	1	0	3	4	0	9	3	0	0	0	0	
		0	6	0	3	3	3	9	6	6	7	7	8	7	5	3	0	5	0	3	6	7	2	1	6	6	6	6	
FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
0.17%		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	
		4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	
		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	males (cont...)

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule					3								X			2											2	
Angiectasis					3																							
Degeneration, Fatty											3				1		1					2						
Hyperplasia, Focal																												
Hypertrophy, Focal																						2						
.....																												
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia								2								3	1					3						3
.....																												
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
.....																												
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+
Cyst											3																	
Hyperplasia							2	3						3									3				3	
.....																												
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Angiectasis				2																								3
Pars Distalis, Cyst								3	3				3										3				3	
Pars Distalis, Hyperplasia, Focal																				2			2				2	
Pars Intermedia, Angiectasis																											2	
Pars Intermedia, Cyst																												
Pars Nervosa, Developmental Malformation																												

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
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2) Mild 4) Marked

TDMS No. 05128 - 06
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
Time Report Requested: 11:47:58
First Dose M/F: 04/26/90 / 04/26/90
Lab: SRI

DAY ON TEST	0																									
	6																									
	0					4					8					3					0					
	6																									
FISCHER 344 RATS MALE 0.17%	0																									
	0																									
	1																									
	4																									
	6																									
	males (cont...)																									

Thyroid Gland	+																									
Ultimobranchial Cyst	M																									
C-cell, Hyperplasia	+																									
Follicle, Cyst	3						3						3													

GENERAL BODY SYSTEM

Peritoneum	+																									
------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

GENITAL SYSTEM

Epididymis	+																									
Atypia Cellular	3																									
Edema	3																									
Granuloma Sperm	3																									
Hypospermia	3																									
Preputial Gland	+																									
Cyst	+																									
Hyperplasia	+																									
Inflammation, Suppurative	2																									
Inflammation, Chronic	3																									
Prostate	+																									
Corpora Amylacea	2																									
Edema	1																									
Inflammation, Suppurative	1																									
Epithelium, Hyperplasia	1																									

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+ .. Tissue examined microscopically

x .. Lesion present

l .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		6	6	6	7	7	6	7	6	6	6	3	4	3	6	7	6	6	7	6	6	6	6	7	4		
		0	4	8	3	3	6	1	8	8	6	5	6	5	9	3	5	1	0	3	4	0	9	3	0	0	
		0	6	0	3	3	3	9	6	6	7	7	8	7	5	3	0	5	0	3	6	7	2	1	6	6	
FISCHER 344 RATS MALE 0.17%	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
		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
		4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7
		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

males (cont...)

Seminal Vesicle

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

Testes

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

Interstitial Cell, Hyperplasia

1 1

2

Seminiferous Tubule, Atrophy

2

2

HEMATOPOIETIC SYSTEM

Bone Marrow

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

Hemorrhage

3

Hyperplasia

3 3

Myelofibrosis

3

Lymph Node

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

Hemorrhage

Hyperplasia, Lymphoid

Pigmentation

Axillary, Ectasia

Axillary, Hemorrhage

Axillary, Hyperplasia, Lymphoid

Axillary, Pigmentation

Deep Cervical, Hemorrhage

Deep Cervical, Hyperplasia, Lymphoid

Deep Cervical, Pigmentation

2

Iliac, Pigmentation

3

Inguinal, Hemorrhage

Inguinal, Hyperplasia, Lymphoid

Mediastinal, Ectasia

2

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 3 | 4 | 3 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 7 | 4 | |
| | 0 | 4 | 8 | 3 | 3 | 6 | 1 | 8 | 8 | 6 | 5 | 6 | 5 | 9 | 3 | 5 | 1 | 0 | 3 | 4 | 0 | 9 | 3 | 0 | 0 |
| | 0 | 6 | 0 | 3 | 3 | 3 | 9 | 6 | 6 | 7 | 7 | 8 | 7 | 5 | 3 | 0 | 5 | 0 | 3 | 6 | 7 | 2 | 1 | 6 | 6 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| 0.17% | 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 |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| | 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 |
| Mediastinal, Hemorrhage | | | | | | | | | | 3 | | | | | | 2 | | | | | | | | 1 | |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | 2 | 1 | 2 | | | | | | | | | |
| Mediastinal, Pigmentation | 3 | | 4 | | | 3 | | | 3 | 3 | | | | | 3 | 3 | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Lymph Node, Mandibular Ectasia | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | 3 | | | 3 | | | | | | 2 | | | | | 2 | 2 | | 3 | | 4 | | 2 |
| Hyperplasia, Lymphoid | 3 | | 2 | | 3 | | 3 | | | | 2 | | | | 2 | 3 | | | 2 | | | | 3 | 3 | |
| Pigmentation | | | 2 | | | | | | | | | 2 | | | | | | 2 | | | | | | | |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | + | | | |
| Lymph Node, Mesenteric Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | 1 | 2 | | | | 2 | | | | 1 | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 4 | | | 3 | | | | | | | | | | | | | 3 | | | | | | | 2 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | 3 | 2 | | | | 3 | | | | | 4 | 2 | | 3 | | | 3 | 4 | | 3 | |
| Hematopoietic Cell Proliferation | 3 | | 2 | | | | | | | | | | | | 3 | 1 | | 2 | | | | | 2 | | |
| Pigmentation | | | | | 2 | | | | 4 | 2 | | | | | 3 | 2 | | | | | | 3 | | 2 | |

males (cont...)

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 3 | 4 | 3 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 4 | |
| | 0 | 4 | 8 | 3 | 3 | 6 | 1 | 8 | 8 | 6 | 5 | 6 | 5 | 9 | 3 | 5 | 1 | 0 | 3 | 4 | 0 | 9 | 3 | 0 | 0 | |
| | 0 | 6 | 0 | 3 | 3 | 3 | 9 | 6 | 6 | 7 | 7 | 8 | 7 | 5 | 3 | 0 | 5 | 0 | 3 | 6 | 7 | 2 | 1 | 6 | 6 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.17% | 0 | 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 | 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 | |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | |
| | 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 | |

males
(cont...)

Thymus + + + + + + + + M + + + + + + + + + + + + + + +

INTEGUMENTARY SYSTEM

Mammary Gland
Hyperplasia + + + + + + + + + M + + + + + + + M + + + + + + +

Skin
Cyst Epithelial Inclusion + + + + + + + + + + + + + + + + + + + + + X

Hyperkeratosis + + + + + 3 4

Epidermis, Hyperplasia + + + + + 3 3

Subcutaneous Tissue, Edema + + + + + 3

MUSCULOSKELETAL SYSTEM

Bone
Fibrous Osteodystrophy + + + + + + + + + + + + + + + + + + + + + + + + + +

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

Skeletal Muscle
Edema + + + + + 3

NERVOUS SYSTEM

Brain
Developmental Malformation + + + + + X + + + + + X + + + + + + + + + + +

Hemorrhage + + + + + 2

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 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 Page 73
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
Time Report Reqsted: 11:47:58
First Dose M/F: 04/26/90 / 04/26/90
Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 3 | 4 | 3 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 4 | |
| | 0 | 4 | 8 | 3 | 3 | 6 | 1 | 8 | 8 | 6 | 5 | 6 | 5 | 9 | 3 | 5 | 1 | 0 | 3 | 4 | 0 | 9 | 3 | 0 | 0 |
| | 0 | 6 | 0 | 3 | 3 | 3 | 9 | 6 | 6 | 7 | 7 | 8 | 7 | 5 | 3 | 0 | 5 | 0 | 3 | 6 | 7 | 2 | 1 | 6 | 6 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 0 | 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 | 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 |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| | 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 |

**males
(cont...)**

Hydrocephalus 3

Peripheral Nerve

+

Spinal Cord

+

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | | |
| Infiltration Cellular, Histiocyte | 1 | 1 | | | | 1 | | | 1 | | | | | 1 | 1 | 1 | | | 1 | | | | 1 | | |
| Inflammation, Subacute | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Exudate | | | | | 3 | | | | 3 | | | | | | | | | | 3 | | | 3 | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | 1 | | | | 2 | | | | | | | | | | 1 | | | 2 | | | |
| Mucosa, Metaplasia, Squamous | 2 | | | 2 | | | | | 3 | | | | | | | | | | | | | 3 | | | |
| Trachea | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

Ear M

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 3 | 4 | 3 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 4 | | |
| | 0 | 4 | 8 | 3 | 3 | 6 | 1 | 8 | 8 | 6 | 5 | 6 | 5 | 9 | 3 | 5 | 1 | 0 | 3 | 4 | 0 | 9 | 3 | 0 | 0 | | |
| | 0 | 6 | 0 | 3 | 3 | 3 | 9 | 6 | 6 | 7 | 7 | 8 | 7 | 5 | 3 | 0 | 5 | 0 | 3 | 6 | 7 | 2 | 1 | 6 | 6 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 0.17% | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | |
| | 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 | |

males
(cont...)

Zymbal's Gland

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | 3 | | | | | | | | | | | | | 3 | | 3 | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | 1 | 1 | | | | | 1 | | | | | | | | | | | | 1 | | | | | | |
| Nephropathy | 2 | 3 | 3 | 4 | 3 | 2 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | | |
| Renal Tubule, Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | 3 | 1 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 3 | 2 | 3 | 2 | 2 | 3 | | 1 | | |
| Transitional Epithelium, Hyperplasia | | | 1 | 2 | 2 | | 2 | 3 | 2 | | | | | 2 | 2 | | | | 2 | | 2 | 3 | 1 | 3 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethra | | | | | | | + | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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

Page 75

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 6 | 3 | 5 | 6 | 2 | 6 | 6 | 5 | 3 | 4 |
| | 5 | 5 | 9 | 4 | 4 | 7 | 9 | 0 | 8 | 9 |
| | 0 | 7 | 0 | 9 | 6 | 2 | 5 | 2 | 4 | 9 |
| | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 58 |
| Intestine Large, Cecum | + | + | + | + | + | M | + | + | + | + | 59 |
| Edema | | | 2 | 2 | | | 3 | | | | 8 2.3 |
| Parasite Metazoan | | | | | | | | | | | 2 |
| Intestine Large, Colon | + | M | + | + | + | + | + | + | + | M | 58 |
| Edema | | | | | | | 3 | | | | 1 3.0 |
| Parasite Metazoan | | | | X | | | | | | | 9 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 60 |
| Parasite Metazoan | | X | | | | | | | | | 5 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 60 |
| Erosion | | | | | | | | | | | 1 3.0 |
| Epithelium, Hyperplasia | | | | 2 | | 3 | 3 | | | | 22 2.6 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 59 |
| Epithelium, Hyperplasia | | | | 2 | | | | | | | 10 2.2 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 60 |
| Epithelium, Hyperplasia | | | | | | 3 | 2 | | | | 10 2.3 |
| Liver | + | + | + | + | + | + | + | + | + | + | 60 |
| Angiectasis | | | | | | | 2 | | | | 11 2.0 |
| Basophilic Focus | | | | | | | | | | | 6 |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 6 | 3 | 5 | 6 | 2 | 6 | 6 | 5 | 3 | 4 | |
| | 5 | 5 | 9 | 4 | 4 | 7 | 9 | 0 | 8 | 9 | |
| | 0 | 7 | 0 | 9 | 6 | 2 | 5 | 2 | 4 | 9 | |
| <hr/> | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.17% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| <hr/> | | | | | | | | | | | |
| Clear Cell Focus | X | | | | | | X | | X | | 16 |
| Cyst | | | | | | | | | | | 2 3.0 |
| Degeneration, Cystic | | | | 2 | | | | | | | 10 2.0 |
| Developmental Malformation | | | | | X | | | | | | 2 |
| Eosinophilic Focus | | | X | X | | | X | | | | 14 |
| Granuloma | | | | | | | | | | | 1 1.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | 2 | | 5 1.8 |
| Inflammation, Subacute | 1 | | | | | | | 1 | 1 | 2 | 11 1.1 |
| Mixed Cell Focus | | | | | | | X | | | | 9 |
| Necrosis, Focal | | | | | | | | | 1 | | 3 1.7 |
| Thrombosis | | | 3 | | | | | | | | 1 3.0 |
| Bile Duct, Hyperplasia | 1 | | 1 | 2 | | | | | | | 18 1.4 |
| Bile Duct, Pigmentation | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 60 1.7 |
| Centrilobular, Atrophy | | | 3 | 2 | | | | | | | 8 2.4 |
| Hepatocyte, Cytologic Alterations | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 53 2.3 |
| Hepatocyte, Pigmentation | 2 | 1 | | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 53 1.6 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | 1 3.0 |
| Kupffer Cell, Pigmentation | | | 1 | 1 | | 1 | | | | 2 | 23 1.9 |
| <hr/> | | | | | | | | | | | |
| Mesentery | | | | + | | | | | | | 10 |
| Fat, Necrosis | | | | 4 | | | | | | | 10 3.3 |
| <hr/> | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | 3 |
| <hr/> | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 60 |
| Atrophy | | | 1 | 1 | | | | | 2 | | 27 1.6 |
| Basophilic Focus | | | | | | | | | X | | 2 |
| Edema | | | | 2 | | | | 1 | 2 | | 16 1.8 |
| Inflammation, Chronic | | | | | | | | | | | 1 2.0 |
| Acinar Cell, Cytoplasmic Alteration | | | | | 4 | 4 | | | | | 11 3.2 |
| Acinar Cell, Hyperplasia, Focal | 4 | | | | | | | | | | 6 2.8 |

* .. 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
 Page 77

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|
| | 6 | 3 | 5 | 6 | 2 | 6 | 6 | 5 | 3 | 4 |
| | 5 | 5 | 9 | 4 | 4 | 7 | 9 | 0 | 8 | 9 |
| | 0 | 7 | 0 | 9 | 6 | 2 | 5 | 2 | 4 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| * TOTALS | | | | | | | | | | |

| | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 59 | |
| Atrophy | | | | | | | | | | | | 5 1.2 |
| Basophilic Focus | | | | | | | | | | | | 1 |
| Edema | | | | | | | 2 | | 2 | | | 6 1.8 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 60 | |
| Edema | | | | 2 | | 3 | 2 | | | | | 15 2.4 |
| Ulcer | | | | 3 | | 4 | | | | | | 5 3.6 |
| Mucosa, Hyperplasia | | | | | | 3 | 2 | | 2 | | | 19 2.6 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 60 | |
| Edema | | | | | | 2 | 2 | | | | | 7 1.9 |
| Erosion | | | | | | 2 | | | | | | 1 2.0 |
| Tongue | | | | | | | | | | | 1 | |
| Tooth | | | | | | | | | | | 3 | |
| Necrosis | | | | | | | | | | | | 2 3.5 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 60 | |
| Thrombosis | | | | | | | | | | | | 2 3.5 |
| Heart | + | + | + | + | + | + | + | + | + | + | 60 | |
| Cardiomyopathy | 3 | | | 2 | | 3 | 2 | 1 | 1 | | | 35 2.1 |
| Thrombosis | | | | | | | | | | | | 1 2.0 |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|-----------------|
| | 6 | 3 | 5 | 6 | 2 | 6 | 6 | 5 | 3 | 4 |
| | 5 | 5 | 9 | 4 | 4 | 7 | 9 | 0 | 8 | 9 |
| | 0 | 7 | 0 | 9 | 6 | 2 | 5 | 2 | 4 | 9 |
| | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | * TOTALS |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | |
|------------------------------------------|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 60 | |
| Accessory Adrenal Cortical Nodule | 2 | | 2 | | | 2 | 2 | | | | | 13 2.0 |
| Angiectasis | | | | | | | | | | | | 1 3.0 |
| Degeneration, Fatty | | | | | | | 2 | | | | | 7 1.9 |
| Hyperplasia, Focal | | | | | | | 2 | | | | | 2 2.5 |
| Hypertrophy, Focal | | | | | | | | | | | | 2 2.0 |
| | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 60 | |
| Hyperplasia | | | | | | | 3 | | | | | 18 2.3 |
| | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 60 | |
| | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | M | + | + | 57 | |
| Cyst | | | | | | | | | | | | 1 3.0 |
| Hyperplasia | | | | | | 3 | 4 | | | | | 15 2.8 |
| | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 58 | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | 6 2.8 |
| Pars Distalis, Cyst | | | | | | | | | | | | 5 3.0 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | 6 2.3 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | 1 2.0 |
| Pars Intermedia, Cyst | | | | | | | | | | | | 3 3.0 |
| Pars Nervosa, Developmental Malformation | | | | | | | | | | | | 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 6 | 3 | 5 | 6 | 2 | 6 | 6 | 5 | 3 | 4 | |
| | 5 | 5 | 9 | 4 | 4 | 7 | 9 | 0 | 8 | 9 | |
| | 0 | 7 | 0 | 9 | 6 | 2 | 5 | 2 | 4 | 9 | |
| | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.17% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 59 |
| Ultimobranchial Cyst | | | | | | | | | | | 2 |
| C-cell, Hyperplasia | | | | | | | | | | | 1 1.0 |
| Follicle, Cyst | | | 3 | | | | | | 3 | | 6 3.0 |
| | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | |
| | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | 3 |
| | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | |
| | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | 60 |
| Atypia Cellular | | | 3 | | | 3 | | | | 3 | 27 3.0 |
| Edema | | | | | | | 2 | | | 1 | 5 1.4 |
| Granuloma Sperm | | | | | | | | | | | 1 2.0 |
| Hypospermia | | | 3 | 3 | | 3 | 3 | | | | 38 3.0 |
| | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | | | | | | | | | 1 3.0 |
| Hyperplasia | | | | | | | | | | | 1 2.0 |
| Inflammation, Suppurative | | | | | | | 2 | | | | 7 1.7 |
| Inflammation, Chronic | | | | | | 2 | | | | 2 | 12 2.1 |
| | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | 60 |
| Corpora Amylacea | | | | | | 2 | | | | | 25 2.2 |
| Edema | | | | | | | | | | | 2 1.5 |
| Inflammation, Suppurative | 1 | | | 1 | | | 1 | | | 2 | 36 1.8 |
| Epithelium, Hyperplasia | | | | | | | | | | | 3 1.7 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 80

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|
| | 6 | 3 | 5 | 6 | 2 | 6 | 6 | 5 | 3 | 4 |
| | 5 | 5 | 9 | 4 | 4 | 7 | 9 | 0 | 8 | 9 |
| | 0 | 7 | 0 | 9 | 6 | 2 | 5 | 2 | 4 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

*** TOTALS**

| | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|--------------|
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | 60 |
| Testes | + | + | + | + | + | + | + | + | + | + | 60 |
| Interstitial Cell, Hyperplasia | | | 1 | | | | | | 2 | | 7 1.3 |
| Seminiferous Tubule, Atrophy | | | | | | | | | | | 2 2.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|--------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 60 |
| Hemorrhage | 3 | | | | | | | | | | 5 2.8 |
| Hyperplasia | | | | | | | | 3 | | | 4 3.0 |
| Myelofibrosis | | | | | | | | | | | 1 3.0 |
| Lymph Node | | + | + | + | | | | | + | | 30 |
| Hemorrhage | | | | | | | | | 1 | | 2 1.0 |
| Hyperplasia, Lymphoid | | | | | | | | | 3 | | 2 3.0 |
| Pigmentation | | | | | | | | | 3 | | 1 3.0 |
| Axillary, Ectasia | | | | | | | | | | | 1 2.0 |
| Axillary, Hemorrhage | | | | | | | | | | | 1 2.0 |
| Axillary, Hyperplasia, Lymphoid | | | | | | | | | | | 1 2.0 |
| Axillary, Pigmentation | | | | | | | | | | | 1 2.0 |
| Deep Cervical, Hemorrhage | | | | | | | | | | | 2 1.5 |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | 1 2.0 |
| Deep Cervical, Pigmentation | | | | | | | | | | | 4 2.5 |
| Iliac, Pigmentation | | | | | | | | | | | 1 3.0 |
| Inguinal, Hemorrhage | | | | | | | | | 1 | | 2 1.0 |
| Inguinal, Hyperplasia, Lymphoid | | | | | | | | | 3 | | 2 3.0 |
| Mediastinal, Ectasia | | | | | | | | | | | 3 1.7 |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|--------|-----------------|
| | 6 | 3 | 5 | 6 | 2 | 6 | 6 | 5 | 3 | 4 | | |
| | 5 | 5 | 9 | 4 | 4 | 7 | 9 | 0 | 8 | 9 | | |
| | 0 | 7 | 0 | 9 | 6 | 2 | 5 | 2 | 4 | 9 | | |
| | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 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 |
| 0.17% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | * TOTALS |
| Mediastinal, Hemorrhage | 2 | | | | | | 2 | | | | 9 1.9 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | 3 | | | | 11 2.0 | |
| Mediastinal, Pigmentation | | | | | | | 2 | | | | 15 2.7 | |
| Pancreatic, Hemorrhage | | | | | | | | | | | 1 1.0 | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | 1 2.0 | |
| Pancreatic, Pigmentation | | | | | | | | | | | 3 3.0 | |
| Renal, Hemorrhage | | | | | | | | | | | 1 3.0 | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | 1 2.0 | |
| Renal, Pigmentation | | | | | | | | | | | 1 3.0 | |
| | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | 59 |
| Ectasia | 2 | | | | | | | | | | 9 2.4 | |
| Hemorrhage | 1 | | | | | | 1 | | 3 | | 10 1.8 | |
| Hyperplasia, Lymphoid | 3 | | | | | | 3 | | 3 | | 22 2.6 | |
| Pigmentation | | | | | | | | | | | 7 2.0 | |
| | | | | | | | | | | | | |
| Lymph Node, Mediastinal | + | | | | | | | | | | 4 | |
| | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | 60 |
| Ectasia | | | | | | | | | | | 2 2.0 | |
| Hemorrhage | | | | | 3 | | 2 | | | | 10 1.9 | |
| Hyperplasia, Lymphoid | 3 | | | | | | 3 | | 2 | | 10 2.6 | |
| Pigmentation | | | | | 3 | | | | | | 1 3.0 | |
| | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | 60 |
| Congestion | | | | | | | | | | | 3 2.3 | |
| Fibrosis | | | 2 | | | | 4 | | | | 19 2.8 | |
| Hematopoietic Cell Proliferation | | | 2 | | | | 2 | | 2 | | 16 2.2 | |
| Pigmentation | | | 3 | | 1 | | | | | | 14 2.5 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 6 | 3 | 5 | 6 | 2 | 6 | 6 | 5 | 3 | 4 | |
| | 5 | 5 | 9 | 4 | 4 | 7 | 9 | 0 | 8 | 9 | |
| | 0 | 7 | 0 | 9 | 6 | 2 | 5 | 2 | 4 | 9 | |
| | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.17% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | 58 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|----|--------|
| Mammary Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | 56 | 12 2.3 |
| Skin | + | + | + | + | + | + | + | + | + | + | 60 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | 1 |
| Hyperkeratosis | | | | | | | | | | | | 3 2.7 |
| Epidermis, Hyperplasia | | | | | | | | | | | | 5 2.4 |
| Subcutaneous Tissue, Edema | | | | | | | 4 | | 3 | | | 4 3.3 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|----|--------|
| Bone | + | + | + | + | + | + | + | + | + | + | 60 | |
| Fibrous Osteodystrophy | | | | 1 | | | 3 | | | | | 18 2.1 |
| Hyperostosis | | | | | | | | | | | | 1 3.0 |
| Skeletal Muscle | | | | | | | | | + | | 5 | |
| Edema | | | | | | | | | 2 | | | 4 2.8 |

NERVOUS SYSTEM

| | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | 60 | |
| Developmental Malformation | | | | | | | | | | | | 4 |
| Hemorrhage | | | | | | | | 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

Page 83

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|
| | 6 | 3 | 5 | 6 | 2 | 6 | 6 | 5 | 3 | 4 |
| | 5 | 5 | 9 | 4 | 4 | 7 | 9 | 0 | 8 | 9 |
| | 0 | 7 | 0 | 9 | 6 | 2 | 5 | 2 | 4 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

*** TOTALS**

| | | | | | | | | | | | |
|------------------|--|--|--|--|--|--|--|--|--|--|--------------|
| Hydrocephalus | | | | | | | | | | | 1 3.0 |
| Peripheral Nerve | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | | | | | 4 | | | | 1 4.0 |
| Edema | | | | 1 | | | 2 | | 2 | | 10 1.4 |
| Infiltration Cellular, Histiocyte | 1 | 1 | | 1 | | 1 | 1 | | | | 20 1.0 |
| Inflammation, Subacute | | | | | | | | | | | 2 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | 2 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | 60 |
| Exudate | | | | | X | | | | | | 10 3.0 |
| Foreign Body | | | | | 3 | | | | | | 2 3.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | 9 1.9 |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | 7 2.7 |
| Trachea | + | + | + | + | + | + | + | + | + | + | 59 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|----------|
| Ear | | | | | | | | | | | 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|----------|
| | 6 | 3 | 5 | 6 | 2 | 6 | 6 | 5 | 3 | 4 | |
| | 5 | 5 | 9 | 4 | 4 | 7 | 9 | 0 | 8 | 9 | |
| | 0 | 7 | 0 | 9 | 6 | 2 | 5 | 2 | 4 | 9 | |
| <hr/> | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.17% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | * TOTALS | | | | | | | | | | |
| Zymbal's Gland | + | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | | | | | | | | | 7 3.0 |
| Infarct | | | | | | | | | | | 1 1.0 |
| Inflammation, Suppurative | 1 | | | | | | | | | | 5 1.0 |
| Nephropathy | 3 | 2 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 3 | 60 3.1 |
| Renal Tubule, Hyperplasia | | | | | | | 2 | | | | 4 2.0 |
| Renal Tubule, Pigmentation | 2 | 2 | 4 | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 56 2.2 |
| Transitional Epithelium, Hyperplasia | 1 | | | | | 3 | 2 | | | | 29 1.9 |
| <hr/> | | | | | | | | | | | |
| Urethra | | | | | | | | | | | 1 |
| <hr/> | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 60 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | 1 2.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 85

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

| FISCHER 344 RATS MALE
0.5% ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-----------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum
Edema
Parasite Metazoan | + + + + + + + + + + + + + + + + + + + + + + + + +
3 3 3
2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon
Edema
Parasite Metazoan | + + + + + + + + + + + + + + + + + + + + + + + M + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum
Parasite Metazoan | + + + + + + + + + + + + + + + + + + + + + + + + +
X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum
Epithelium, Hyperplasia | + + + + + + + + + + + + + + + + + + + + + + + + +
2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum
Epithelium, Hyperplasia | + + + + + + + + + + + + + + + + + + + + + + + + +
2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum
Cyst
Inflammation, Chronic
Ulcer
Epithelium, Hyperplasia | + + + + + + + + + + + + + + + + + + + + + + + + +
3 2 3 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
 Page 86
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 5 | 6 | 4 | 5 | 3 | 3 | 6 | 7 | 4 | 3 | 4 | 6 | 7 | |
| FISCHER 344 RATS MALE
0.5% 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 |
| 0.5% | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) | |
| Angiectasis | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | X | | | | | | X | X | X | | | | | | | | | | | | X | X | | X |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Subacute | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Cytologic Alterations | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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:
 1) Minimal 3) Moderate
 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 | 0 | 0 | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 5 | 6 | 4 | 5 | 3 | 3 | 6 | 7 | 4 | 3 | 4 | 6 | 7 |
| | 5 | 3 | 5 | 7 | 9 | 9 | 9 | 9 | 2 | 2 | 5 | 4 | 6 | 9 | 9 | 6 | 2 | 4 | 5 | 3 | 9 | 5 | 9 | 1 | 1 |
| | 7 | 4 | 7 | 2 | 6 | 8 | 2 | 6 | 4 | 4 | 7 | 6 | 6 | 5 | 8 | 8 | 0 | 5 | 6 | 3 | 6 | 7 | 8 | 7 | 6 |

| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.5% | 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 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Basophilic Focus | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Edema | | | | | 2 | | | | 3 | | | | | 2 | | | | | 2 | | | | | 1 | | 1 | |
| Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | | | | 3 | 4 | 3 | | | 3 | | | | | | | | | | | | 4 |
| Acinar Cell, Hyperplasia, Focal | | | | | 2 | 2 | | | | | | 3 | | | | | | | | 2 | | | | | 1 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

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

Page 88

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| 0.5% | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| Hypertrophy | | 3 | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Inflammation, Subacute | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cardiomyopathy | | 2 | 2 | | 2 | | | | | 1 | | 1 | | 1 | 2 | 2 | 2 | | | | 1 | 2 | | 2 | 3 | 2 |
| Mineralization | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

males (cont...)

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|--|
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Accessory Adrenal Cortical Nodule | | 3 | | | | | | 2 | | | X | | | 1 | | | | | | 3 | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Fatty | | 1 | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Diffuse | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Hyperplasia | | 3 | | | 2 | | | 2 | | | 2 | | | | | | 3 | | | 3 | | | 1 | | | 1 | | |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Hyperplasia | | 3 | | | | | | 3 | | | 3 | | | M | | | 2 | | | 2 | | | 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 5 | 6 | 4 | 5 | 3 | 3 | 6 | 7 | 4 | 3 | 4 | 6 | 7 |
| FISCHER 344 RATS MALE | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5% | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 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 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Corpora Amylacea | | 2 | | | | | | 3 | | | | 2 | 2 | | 2 | 2 | | | | 3 | 2 | | | 2 | |
| Edema | | | | | | | | | | | | | | | | | | | 2 | | 2 | | | | |
| Inflammation, Suppurative Epithelium, Hyperplasia | 1 | | 1 | 2 | 2 | | | | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 1 | | | | | | 1 | 2 | 3 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Interstitial Cell, Hyperplasia | 1 | | | | | | | | | | | | 2 | | | | | | | | | | 2 | | |
| Seminiferous Tubule, Atrophy | | | | | 1 | | | | | | | | | | | | | | | | | | | | |

males (cont...)

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | 2 | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymph Node | | + | | + | + | + | + | | | + | + | + | + | + | + | + | | + | + | + | | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Iliac, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Iliac, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 91

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 5 | 6 | 4 | 5 | 3 | 3 | 6 | 7 | 4 | 3 | 4 | 6 | 7 |
| FISCHER 344 RATS MALE
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 |
| 0.5% | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Inguinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | 1 | | 2 | | | | 3 | | | 2 | | 1 | | | 3 | | 2 | | | 1 | | 2 | | | |
| Mediastinal, Hyperplasia, Lymphoid | 3 | | 3 | | 2 | | | | 2 | | 2 | | | 3 | | 2 | | | | 2 | | 3 | | | |
| Mediastinal, Pigmentation | 2 | | 3 | 3 | | 3 | | | 4 | 3 | 2 | 2 | 2 | | | | | | | 3 | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | 3 | | | 3 | | | | | | | | | | |
| Renal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | 1 | | | | | | | | | | | | | | | | | | | | 3 | |
| Renal, Hyperplasia, Lymphoid | | | | 3 | | | 2 | | | | | | | | | | | | | | | | | 3 | |
| Renal, Pigmentation | | | | | | | 4 | | | | | | | | 3 | | | | 4 | 3 | | | | 3 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | 2 | | | | | 1 | | | 2 | | | | 1 | 1 | 2 | | |
| Hyperplasia, Lymphoid | | 3 | | 3 | | 2 | | | 3 | 3 | | 3 | | 4 | 3 | | | 2 | | | | | | 2 | |
| Pigmentation | | | 2 | | | | | | | | | | | | | | | | | | | | | 2 | |
| Lymph Node, Mediastinal | | | | | | | | | | | | + | | | | | | | + | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | 2 | | | 1 | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | 1 | | 1 | | | | | | 2 | | | 2 | | | | | 2 | | |
| Hyperplasia, Lymphoid | | 3 | | 2 | | | | | | | | 2 | | | 2 | | | | | | | | | 2 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | 3 | | | | | | 4 | | | | | 3 | 2 | |
| Hematopoietic Cell Proliferation | | 2 | | 3 | 2 | | | | | | 2 | | | | | | | | 2 | | | | 2 | 2 | |
| Metaplasia, Lipocyte | | | | | | | | | | | | | | | | | | | | | | | | 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 5 | 6 | 4 | 5 | 3 | 3 | 6 | 7 | 4 | 3 | 4 | 6 | 7 |
| | | 5 | 3 | 5 | 7 | 9 | 9 | 9 | 9 | 2 | 2 | 5 | 4 | 6 | 9 | 9 | 6 | 2 | 4 | 5 | 3 | 9 | 5 | 9 | 1 | 1 |
| | | 7 | 4 | 7 | 2 | 6 | 8 | 2 | 6 | 4 | 4 | 7 | 6 | 6 | 5 | 8 | 8 | 0 | 5 | 6 | 3 | 6 | 7 | 8 | 7 | 6 |
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| 0.5% | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Pigmentation | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | | | 2 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Edema | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|
| | | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 5 | 6 | 4 | 5 | 3 | 3 | 6 | 7 | 4 | 3 | 4 | 6 | 7 |
| | | 5 | 3 | 5 | 7 | 9 | 9 | 9 | 9 | 2 | 2 | 5 | 4 | 6 | 9 | 9 | 6 | 2 | 4 | 5 | 3 | 9 | 5 | 9 | 1 | 1 |
| | | 7 | 4 | 7 | 2 | 6 | 8 | 2 | 6 | 4 | 4 | 7 | 6 | 6 | 5 | 8 | 8 | 0 | 5 | 6 | 3 | 6 | 7 | 8 | 7 | 6 |
| FISCHER 344 RATS MALE
0.5% | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | males (cont...) |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | 3 | | | 1 | | | | | | 1 | | | | 2 | 2 | 2 | 1 | | | | 1 | | |
| Hemorrhage | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | 1 | 1 | 1 | 1 | | 1 | 1 | | | | | | 1 | | | |
| Inflammation, Subacute | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Exudate | | | | | | | | | | | | | | | 3 | | 3 | | | | 3 | | | | |
| Foreign Body | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | 1 | | 3 | | | | 2 | | | | |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | | | | | | 2 | 3 | | | | 3 | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

Ear

* .. 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. 05128 - 06
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 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 5 | 3 | 5 | 5 | 4 | 4 | 5 | 6 | 6 | 3 | 5 | 5 | 6 | 4 | 5 | 3 | 3 | 6 | 7 | 4 | 3 | 4 | 6 | 7 | |
| | 5 | 3 | 5 | 7 | 9 | 9 | 9 | 9 | 2 | 2 | 5 | 4 | 6 | 9 | 9 | 6 | 2 | 4 | 5 | 3 | 9 | 5 | 9 | 1 | 1 | |
| | 7 | 4 | 7 | 2 | 6 | 8 | 2 | 6 | 4 | 4 | 7 | 6 | 6 | 5 | 8 | 8 | 0 | 5 | 6 | 3 | 6 | 7 | 8 | 7 | 6 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.5% | 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 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 2 | 3 | 2 | 4 | 3 | 1 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 2 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | |
| Pelvis, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | |
| Transitional Epithelium, Hyperplasia | | | | 1 | 2 | | 2 | 1 | 2 | 2 | | 2 | 1 | | 1 | | | 3 | 3 | 2 | | | | 2 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 Page 95

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 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 3 | 7 | 6 | 6 | 6 | 7 | 4 | 6 | 5 | 7 | 7 | 4 | 7 | 5 | 3 | 5 | 5 | 3 |
| | 1 | 0 | 9 | 0 | 1 | 2 | 5 | 5 | 0 | 9 | 5 | 0 | 2 | 8 | 9 | 0 | 2 | 0 | 3 | 3 | 0 | 4 | 0 | 8 | 0 |
| | 6 | 0 | 3 | 0 | 5 | 2 | 8 | 7 | 4 | 1 | 6 | 2 | 6 | 1 | 5 | 5 | 7 | 6 | 2 | 3 | 2 | 5 | 9 | 9 | 2 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| 0.5% | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | 2 | 2 | | | 3 | | | | | | | | | | 2 | 2 | | | | | 2 | | | |
| Parasite Metazoan | | | | | | X | X | | | | | | | | | | | | | | | | | X |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Parasite Metazoan | | | | | | X | | | | | X | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | | | | | | | | | | | X | | | | X | X | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Hyperplasia | 2 | | 3 | 3 | | | | | | 2 | | 3 | 3 | 2 | | | | | | 2 | | | 3 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Hyperplasia | | | | 3 | | | | | | | | 3 | 2 | | | | | | | | | | 2 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | 3 | | | | | | 3 | | 2 | | | | | | | | | | 3 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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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| 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 | | |
|---------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|
| | | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 3 | 7 | 6 | 6 | 6 | 7 | 4 | 6 | 5 | 7 | 7 | 4 | 7 | 5 | 3 | 5 | 5 | 3 | |
| | | 1 | 0 | 9 | 0 | 1 | 2 | 5 | 5 | 0 | 9 | 5 | 0 | 2 | 8 | 9 | 0 | 2 | 0 | 3 | 3 | 0 | 4 | 0 | 8 | 0 | |
| | | 6 | 0 | 3 | 0 | 5 | 2 | 8 | 7 | 4 | 1 | 6 | 2 | 6 | 1 | 5 | 5 | 7 | 6 | 2 | 3 | 2 | 5 | 9 | 9 | 2 | |
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| 0.5% | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
| Angiectasis | | 4 | | 3 | | | | | | | | 2 | | 3 | | 2 | | | | | | | | | | | |
| Basophilic Focus | | | | X | | | | | | | | X | | | | | | X | | | | | | | | | |
| Clear Cell Focus | | | | X | | X | | | | | | X | | | | X | | | | X | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | 2 | 3 | | | 2 | | 2 | | | | 2 | | 2 | | 4 | | 1 | | | | | | | | | |
| Eosinophilic Focus | | X | X | | | | | | | X | | X | | | | X | | | | X | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | X | | | | | X | | X | | | | | | | | | | | | | | | | | | |
| Inflammation, Subacute | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mixed Cell Focus | | | | | | | | | | | | X | | X | | X | | X | | | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Thrombosis | | 3 | 3 | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | 1 | 2 | 1 | 1 | | 2 | | 2 | | 1 | | 2 | | 2 | | 2 | | 2 | | 1 | | | | 1 | | |
| Bile Duct, Pigmentation | | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 1 | 3 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 2 |
| Centrilobular, Atrophy | | 2 | | 3 | | 2 | | 2 | | 2 | | 3 | | 2 | | 2 | | 2 | | 2 | | | | | | | |
| Hepatocyte, Cytologic Alterations | | 3 | 3 | 3 | 3 | | | 2 | | 3 | | 3 | | 2 | | 3 | | 2 | | 3 | | 3 | | 1 | | 2 | |
| Hepatocyte, Pigmentation | | 2 | 2 | 2 | 3 | 3 | 2 | | 2 | | 2 | | 3 | | 1 | | 2 | | 2 | | 1 | | 2 | | 2 | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Kupffer Cell, Pigmentation | | 2 | | | | 1 | | 3 | | 2 | | 1 | | | | 2 | | 2 | | 2 | | | | 1 | | 1 | |
| Mesentery | | + | | + | | + | | | | | | | | + | | + | | | | + | | | | + | | + | |
| Accessory Spleen | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | 3 | 2 | 3 | | | | | | | | 3 | | 3 | | | | 2 | | | | 3 | | 2 | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | + | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 2 | | 1 | | 1 | | | | | | 2 | | 3 | | | | 1 | | | | | | | | | |

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

M .. Missing tissue
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| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 6 7 6 7 6 3 7 6 6 6 7 4 6 5 7 7 4 7 5 3 5 5 3 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE
0.5% ANIMAL ID | 1 0 9 0 1 2 5 5 0 9 5 0 2 8 9 0 2 0 3 3 0 4 0 8 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 0 3 0 5 2 8 7 4 1 6 2 6 1 5 5 7 6 2 3 2 5 9 9 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5% 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 | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---------------------------------------------------|---|---|---|---|---|--|---|--|---|--|---|---|---|---|---|---|--|--|---|---|---|---|---|---|--|--|
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | 1 | 1 | 1 | | 1 | 1 | | | | | | 2 | | | | 1 | 1 | | | | | 2 | 2 | 1 | | | |
| Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia, Focal | | | | | | | | | | | | | 2 | | 3 | | | | | | | | | | | | |
| Salivary Glands | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | 1 | | 1 | | 2 | | | | 2 | | 2 | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | 3 | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | 3 | | | 4 | | | | 1 | | 3 | | | | 1 | | 2 | | | | 1 | | 4 | | | | | |
| Stomach, Glandular | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | 2 | | | 2 | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Erosion | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Tongue | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

* .. 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
 Page 98

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 3 | 7 | 6 | 6 | 6 | 7 | 4 | 6 | 5 | 7 | 7 | 4 | 7 | 5 | 3 | 5 | 5 | 3 |
| | 1 | 0 | 9 | 0 | 1 | 2 | 5 | 5 | 0 | 9 | 5 | 0 | 2 | 8 | 9 | 0 | 2 | 0 | 3 | 3 | 0 | 4 | 0 | 8 | 0 |
| | 6 | 0 | 3 | 0 | 5 | 2 | 8 | 7 | 4 | 1 | 6 | 2 | 6 | 1 | 5 | 5 | 7 | 6 | 2 | 3 | 2 | 5 | 9 | 9 | 2 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| 0.5% | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Inflammation, Subacute | | | | | | | 2 | | | | | | | | | | | | | | | | | | | 3 |
| Mineralization | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Thrombosis | | | | 3 | | | 2 | | | | | | | | | | | | | | | | | | | 2 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | | 1 | | 2 | | 2 | | 1 | | | 2 | 2 | | | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| Mineralization | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | 3 | | 2 | | 1 | | | | | | | | | | | 1 | | | 1 | | X | | | 3 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Degeneration, Fatty | 1 | | | 1 | | 1 | | | | | 1 | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hypertrophy, Focal | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 1 | | | 2 | | | | | | 2 | | 2 | | | | 1 | | | 1 | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | 3 | | | 2 | | | | 3 | | | 2 | | | 3 | | | | | | | | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 Page 99
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
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 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 D & C YELLOW NO. 11
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Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 3 | 7 | 6 | 6 | 6 | 7 | 4 | 6 | 5 | 7 | 7 | 4 | 7 | 5 | 3 | 5 | 5 | 3 | |
| | 1 | 0 | 9 | 0 | 1 | 2 | 5 | 5 | 0 | 9 | 5 | 0 | 2 | 8 | 9 | 0 | 2 | 0 | 3 | 3 | 0 | 4 | 0 | 8 | 0 | |
| | 6 | 0 | 3 | 0 | 5 | 2 | 8 | 7 | 4 | 1 | 6 | 2 | 6 | 1 | 5 | 5 | 7 | 6 | 2 | 3 | 2 | 5 | 9 | 9 | 2 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| 0.5% | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | |
| Pars Distalis, Angiectasis | 3 | | | | | 3 | | | | | | | | | 3 | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | 3 | 3 | | | | | 3 | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | 2 | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ultimobranchial Cyst | | | | | | | | | | | | 3 | | | | | | | | | | | | | X | |
| C-cell, Hyperplasia | | | | 2 | | 1 | | 2 | | 2 | | 2 | 3 | | | | | | | | | | | | | |
| Follicle, Cyst | | | | 3 | | | | | | | | 3 | | | | | | 3 | | | | | | | | |

males
(cont...)

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peritoneum | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atypia Cellular | 3 | | | | 3 | | | 3 | 3 | | | 3 | 3 | | | | 3 | 3 | | 3 | | | | | |
| Edema | | 1 | | 1 | | 2 | | | | | | | 1 | 1 | | | | 2 | | 2 | | 1 | | | |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypospermia | 3 | 3 | 3 | 3 | 3 | | | | 3 | | 3 | 3 | | 3 | | | 3 | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | 2 | | 1 | | | | | 2 | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 100

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | 0 |
|---------------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------|
| | 7 7 6 7 6 7 6 3 7 6 6 6 7 4 6 5 7 7 4 7 5 3 5 5 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE
0.5% ANIMAL ID | 1 0 9 0 1 2 5 5 0 9 5 0 2 8 9 0 2 0 3 3 0 4 0 8 0 | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 6 0 3 0 5 2 8 7 4 1 6 2 6 1 5 5 7 6 2 3 2 5 9 9 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5% 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 | | | | | | | | | | | | | | | | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Corpora Amylacea | 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | 2 1 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative Epithelium, Hyperplasia | 3 1 2 3 3 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminiferous Tubule, Atrophy | 3 4 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 3 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Hemorrhage | 1 1 | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 05128 - 06
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 D & C YELLOW NO. 11
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 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|--------------------|
| | 7 7 6 7 6 7 6 3 7 6 6 6 7 4 6 5 7 7 4 7 5 3 5 5 3
1 0 9 0 1 2 5 5 0 9 5 0 2 8 9 0 2 0 3 3 0 4 0 8 0
6 0 3 0 5 2 8 7 4 1 6 2 6 1 5 5 7 6 2 3 2 5 9 9 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE
0.5% 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 | | | | | | | | | | | | | | | | | | | | | | | | 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
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 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 3
6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mediastinal, Ectasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | 1 | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mediastinal, Hyperplasia, Lymphoid | 2 3 2 2 | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Mediastinal, Pigmentation | 3 2 3 3 | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pancreatic, Hyperplasia, Lymphoid | 3 2 3 3 | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Pancreatic, Pigmentation | 4 3 3 4 3 3 | | | | | | | | | | | | | | | | | | | | | | | 3 3 | |
| Renal, Ectasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | 3 3 4 3 | | | | | | | | | | | | | | | | | | | | | | | 4 4 | |
| Renal, Pigmentation | 3 4 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + + + + + + + + + + + + + + + + + + + + M + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Hemorrhage | 1 2 | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Hyperplasia, Lymphoid | 3 2 2 3 3 | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Pigmentation | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Lymph Node, Mesenteric | + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | 2 2 3 | |
| Hyperplasia, Lymphoid | 3 2 2 | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Spleen | + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | 3 3 4 3 3 3 3 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | 2 2 3 2 | | | | | | | | | | | | | | | | | | | | | | | 2 2 | |
| Hematopoietic Cell Proliferation | 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Lipocyte | 3 | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------------|--|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 3 | 7 | 6 | 6 | 6 | 7 | 4 | 6 | 5 | 7 | 7 | 4 | 7 | 5 | 3 | 5 | 5 | 3 |
| | | 1 | 0 | 9 | 0 | 1 | 2 | 5 | 5 | 0 | 9 | 5 | 0 | 2 | 8 | 9 | 0 | 2 | 0 | 3 | 3 | 0 | 4 | 0 | 8 | 0 |
| | | 6 | 0 | 3 | 0 | 5 | 2 | 8 | 7 | 4 | 1 | 6 | 2 | 6 | 1 | 5 | 5 | 7 | 6 | 2 | 3 | 2 | 5 | 9 | 9 | 2 |
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| 0.5% | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 3 | 3 | | | | | | | | 2 | | | | | | | | | | | | | | 2 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperkeratosis | | 3 | | | 3 | | | | | | | 3 | | | | | 2 | | | | | | | | | |
| Ulcer | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | 3 | | | 3 | | | | | | 2 | 3 | | | 2 | | 3 | | | | | | | | | |
| Subcutaneous Tissue, Edema | | | | | | 4 | | | | | | | | | | 3 | | 3 | | | 3 | | 4 | 4 | 3 | 3 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | 2 | | | | 3 | | | | 2 | | | 3 | | | 3 | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | + | + | + | | | | |
| | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | | | | |

NERVOUS 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 3 | 7 | 6 | 6 | 6 | 7 | 4 | 6 | 5 | 7 | 7 | 4 | 7 | 5 | 3 | 5 | 5 | 3 | | |
| | 1 | 0 | 9 | 0 | 1 | 2 | 5 | 5 | 0 | 9 | 5 | 0 | 2 | 8 | 9 | 0 | 2 | 0 | 3 | 3 | 0 | 4 | 0 | 8 | 0 | | |
| | 6 | 0 | 3 | 0 | 5 | 2 | 8 | 7 | 4 | 1 | 6 | 2 | 6 | 1 | 5 | 5 | 7 | 6 | 2 | 3 | 2 | 5 | 9 | 9 | 2 | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 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 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 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 | | |
| 0.5% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | X | X | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Subacute | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exudate | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 05128 - 06
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

D & C YELLOW NO. 11

CAS Number: 8003-22-3

Date Report Requested: 06/07/2007

Time Report Requested: 11:47:58

First Dose M/F: 04/26/90 / 04/26/90

Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 3 | 7 | 6 | 6 | 6 | 7 | 4 | 6 | 5 | 7 | 7 | 4 | 7 | 5 | 3 | 5 | 3 | |
| | | 1 | 0 | 9 | 0 | 1 | 2 | 5 | 5 | 0 | 9 | 5 | 0 | 2 | 8 | 9 | 0 | 2 | 0 | 3 | 3 | 0 | 4 | 0 | 8 | 0 |
| | | 6 | 0 | 3 | 0 | 5 | 2 | 8 | 7 | 4 | 1 | 6 | 2 | 6 | 1 | 5 | 5 | 7 | 6 | 2 | 3 | 2 | 5 | 9 | 9 | 2 |
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| 0.5% | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | |

Eye
Cataract
Congestion
Hemorrhage
Retina, Degeneration

+
2

3

Zymbal's Gland

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | 3 | | 3 | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | |
| Mineralization | | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Nephropathy | 3 | 4 | 3 | 1 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 1 | 4 | 3 | 3 | 3 | 1 | 3 | 2 | 2 | 4 | 2 | 2 | |
| Pelvis, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | 4 | | | | 2 | | | | | | | | | |
| Renal Tubule, Pigmentation | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |
| Transitional Epithelium, Hyperplasia | 2 | 2 | 1 | 1 | 1 | 2 | 1 | | | | | 2 | 1 | 2 | 1 | | 2 | | 1 | 2 | | 4 | | | 2 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 3 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 3 |
| | 5 | 7 | 6 | 9 | 7 | 9 | 2 | 1 | 9 | 7 |
| | 7 | 8 | 3 | 0 | 8 | 5 | 9 | 0 | 0 | 0 |
| | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 60 | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 60 | | |
| Edema | | | | | 3 | 2 | | | | | | 12 | 2.4 |
| Parasite Metazoan | | | | | | | | | | | | 3 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 59 | | |
| Edema | | | | | 2 | | | | | | | 1 | 2.0 |
| Parasite Metazoan | | | | | | | | | X | | | 3 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 60 | | |
| Parasite Metazoan | | | | | | | | | X | | | 8 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 60 | | |
| Epithelium, Hyperplasia | | | 2 | | | 2 | 2 | 2 | 2 | | | 21 | 2.5 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 60 | | |
| Epithelium, Hyperplasia | | | | | | 2 | | 2 | | | | 8 | 2.4 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 60 | | |
| Cyst | | | 3 | | | | | | | | | 1 | 3.0 |
| Inflammation, Chronic | | | 2 | | | | | | | | | 2 | 2.0 |
| Ulcer | | | | | | | | | | | | 1 | 2.0 |
| Epithelium, Hyperplasia | | | 3 | | | | 2 | 3 | | | | 12 | 2.7 |
| Liver | + | + | + | + | + | + | + | + | + | + | 60 | | |

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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 3 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 3 | |
| | 5 | 7 | 6 | 9 | 7 | 9 | 2 | 1 | 9 | 7 | |
| | 7 | 8 | 3 | 0 | 8 | 5 | 9 | 0 | 0 | 0 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.5% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Angiectasis | | | | | | 2 | | | 3 | | 12 2.4 |
| Basophilic Focus | X | X | | | | X | | | | | 8 |
| Clear Cell Focus | X | | X | X | | | | X | | | 19 |
| Congestion | | | | | | 3 | 2 | | | | 3 2.7 |
| Degeneration, Cystic | | | | 2 | | | | 1 | | | 13 2.1 |
| Eosinophilic Focus | | | | X | X | | | | | | 12 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 1 2.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | 3 |
| Inflammation, Subacute | | | | | | | | | | | 5 1.2 |
| Mixed Cell Focus | | | | | X | | | | | | 11 |
| Necrosis, Focal | | | | | | | | | | | 3 1.3 |
| Thrombosis | | | | | | | | | 3 | | 6 2.3 |
| Bile Duct, Hyperplasia | | | | 1 | | 1 | | 1 | 2 | | 33 1.5 |
| Bile Duct, Pigmentation | 1 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 60 2.1 |
| Centrilobular, Atrophy | | | | | | | | | 2 | | 15 2.3 |
| Hepatocyte, Cytologic Alterations | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 48 2.5 |
| Hepatocyte, Pigmentation | 1 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 57 2.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | 3 | | | | 2 2.0 |
| Kupffer Cell, Pigmentation | 1 | | | 2 | 1 | 2 | 3 | | 2 | | 31 1.7 |
| Mesentery | | | | | + | | | + | + | | 13 |
| Accessory Spleen | | | | | | | | | | | 1 |
| Angiectasis | | | | | | | | | | | 1 3.0 |
| Cyst | | | | | | | | | | | 1 2.0 |
| Fat, Necrosis | | | | | 4 | | | 3 | 3 | | 12 2.8 |
| Oral Mucosa | + | | | + | | | | | | | 4 |
| Hyperplasia | 2 | | | | | | | | | | 1 2.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 60 |
| Atrophy | | | 2 | | 2 | 2 | 1 | | 2 | 1 | 24 1.6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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TDMS No. 05128 - 06
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 D & C YELLOW NO. 11
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 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 3 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 3 | |
| | 5 | 7 | 6 | 9 | 7 | 9 | 2 | 1 | 9 | 7 | |
| | 7 | 8 | 3 | 0 | 8 | 5 | 9 | 0 | 0 | 0 | |
| <hr/> | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.5% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| <hr/> | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | 1 |
| Edema | | | 1 | | 2 | 1 | | 1 | 1 | | 22 1.4 |
| Metaplasia | | | 1 | | | | | | | | 1 1.0 |
| Thrombosis | | | | | | | | | | | 2 3.0 |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | 4 | | | | 8 3.4 |
| Acinar Cell, Hyperplasia, Focal | | | 2 | 3 | | | | | | | 9 2.2 |
| <hr/> | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 60 |
| Atrophy | | 2 | | | | | | | | | 7 1.6 |
| Edema | | | 3 | | | 2 | | 1 | | | 21 1.8 |
| Inflammation, Chronic | | | | | | | | | | | 1 3.0 |
| <hr/> | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 60 |
| Edema | | | | | 3 | 3 | 3 | | | | 13 3.0 |
| Perforation | | | | | | | | | | | 1 |
| Ulcer | | | | | | 3 | | | | | 5 3.2 |
| Mucosa, Hyperplasia | | | | | 2 | 3 | 3 | | | | 21 2.9 |
| <hr/> | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 60 |
| Edema | | | | | 3 | | | | | | 8 2.0 |
| Erosion | | | | | | | | | | | 1 3.0 |
| <hr/> | | | | | | | | | | | |
| Tongue | | | | | | | | | | | 4 |
| Hyperplasia | | | | | | | | | | | 1 3.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | 1 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 59 |
|--------------|---|---|---|---|---|---|---|---|---|---|----|

* .. 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
 Page 108

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| | 3 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 3 | | | |
| | 5 | 7 | 6 | 9 | 7 | 9 | 2 | 1 | 9 | 7 | | | |
| | 7 | 8 | 3 | 0 | 8 | 5 | 9 | 0 | 0 | 0 | | | |
| <hr/> | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 0.5% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |
| | | | | | | | | | | | | * TOTALS | |
| Hypertrophy | | | | | | | | | | | | 3 3.0 | |
| Inflammation, Subacute | | | | | | | | | | | | 3 2.7 | |
| Mineralization | | | | | | | | | | | | 1 3.0 | |
| Necrosis | | | | | | | | | | | | 1 3.0 | |
| Thrombosis | | | | | | | | | | | | 3 2.3 | |
| <hr/> | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | | 60 | |
| Cardiomyopathy | | 1 | | | 2 | | | 1 | | | | | 30 1.8 |
| Mineralization | | | | | | | | | | | | | 2 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--|-----------|---------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | | 60 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | 1 | 2 | | | 14 1.9 |
| Angiectasis | | | | | | | | | | | | | 1 3.0 |
| Degeneration, Fatty | | | | | | | | | | | | | 6 1.2 |
| Hyperplasia, Focal | | | | | | | | | | | | | 2 2.0 |
| Hyperplasia, Diffuse | | | | | | | | | | | | | 2 3.0 |
| Hypertrophy, Focal | | | | | | | | | | | | | 1 2.0 |
| <hr/> | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | | 60 | |
| Hyperplasia | | 1 | | | 3 | | | | 1 | 3 | | | 19 1.9 |
| <hr/> | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | | 60 | |
| <hr/> | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | M | + | + | | 58 | |
| Hyperplasia | | | | | 3 | 2 | 3 | | | | | | 17 2.6 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| DAY ON TEST | 3 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 3 | |
| | 5 | 7 | 6 | 9 | 7 | 9 | 2 | 1 | 9 | 7 | |
| | 7 | 8 | 3 | 0 | 8 | 5 | 9 | 0 | 0 | 0 | |
| | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.5% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | * TOTALS |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 58 |
| Pars Distalis, Angiectasis | | | | | | | | | | | 3 3.0 |
| Pars Distalis, Cyst | | 3 | | | 3 | | | | | | 7 3.0 |
| Pars Distalis, Hyperplasia, Focal | | | | 1 | | | | | | | 10 1.4 |
| Pars Intermedia, Cyst | | | | | | | | | | | 3 3.0 |
| | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 60 |
| Ultimobranchial Cyst | | 3 | | | | | | | | | 4 3.0 |
| C-cell, Hyperplasia | | | | | | | | | | | 6 1.8 |
| Follicle, Cyst | | 3 | | | | | | | | | 7 3.0 |
| | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | |
| | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | 3 |
| | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | |
| | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | 60 |
| Atypia Cellular | | 3 | 3 | | | | 3 | 3 | | | 23 3.0 |
| Edema | | | | | | | | | | | 14 1.5 |
| Granuloma Sperm | | | | | | | | | | | 1 3.0 |
| Hypospermia | | 3 | 3 | | | 3 | 3 | | 3 | | 29 3.0 |
| | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | 60 |
| Hyperplasia | | | | | | | | | | | 2 1.5 |
| Inflammation, Suppurative | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic | | | | | | | | | | | 6 1.7 |
| | | | | | | | | | | | |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 3 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 3 | |
| | 5 | 7 | 6 | 9 | 7 | 9 | 2 | 1 | 9 | 7 | |
| | 7 | 8 | 3 | 0 | 8 | 5 | 9 | 0 | 0 | 0 | |
| <hr/> | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.5% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| <hr/> | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | 59 |
| Corpora Amylacea | | | 2 | 2 | | | | 3 | | | 18 2.2 |
| Edema | | | | | | | | | | | 12 1.9 |
| Inflammation, Suppurative | 2 | 1 | 1 | | | 1 | 3 | | | 1 | 38 1.8 |
| Epithelium, Hyperplasia | | | | | | | | | | | 1 1.0 |
| <hr/> | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | 60 |
| Edema | | | | | | | | | | | 1 1.0 |
| <hr/> | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | 60 |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | 6 1.3 |
| Seminiferous Tubule, Atrophy | 1 | | | | | | 3 | | | | 6 2.2 |
| <hr/> | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 60 |
| Hemorrhage | | | | | | | 3 | 3 | | | 3 2.7 |
| Hyperplasia | | | | | | | | | | | 4 2.5 |
| Myelofibrosis | | | | | | | | | | | 4 1.8 |
| <hr/> | | | | | | | | | | | |
| Lymph Node | + | + | + | + | + | + | | + | + | + | 47 |
| Hemorrhage | | | | | | 2 | | | | | 4 1.8 |
| Hyperplasia, Lymphoid | | | | | | 3 | | | | | 4 2.5 |
| Pigmentation | | | | | | | | | | | 2 2.5 |
| Deep Cervical, Pigmentation | | | | | | | | | | | 1 3.0 |
| Iliac, Hemorrhage | | | | | | | | | | | 1 3.0 |
| Iliac, Hyperplasia, Lymphoid | | | | | | | | | | | 1 2.0 |
| Iliac, Pigmentation | | | | | | | | | | | 1 3.0 |
| Inguinal, Hemorrhage | | | | | | | | | | | 2 1.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 3 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 3 | |
| | 5 | 7 | 6 | 9 | 7 | 9 | 2 | 1 | 9 | 7 | |
| | 7 | 8 | 3 | 0 | 8 | 5 | 9 | 0 | 0 | 0 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.5% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Inguinal, Hyperplasia, Lymphoid | | | | | | | 3 | | | | 2 2.5 |
| Mediastinal, Ectasia | | | | | | | | | | | 1 3.0 |
| Mediastinal, Hemorrhage | 3 | 2 | 2 | | | | | | | 3 | 17 2.1 |
| Mediastinal, Hyperplasia, Lymphoid | | | 2 | | | | | 3 | | 2 | 17 2.4 |
| Mediastinal, Pigmentation | 3 | 2 | 3 | | 3 | | | | | | 23 2.7 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | 2 | | | 2 | | | 6 2.3 |
| Pancreatic, Pigmentation | | | | 3 | | | | | 4 | | 12 3.3 |
| Renal, Ectasia | | | | | | | | | | | 1 2.0 |
| Renal, Hemorrhage | | | | | | | | | | | 2 2.0 |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | 4 2.3 |
| Renal, Pigmentation | | | | | | | | | | | 11 3.5 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 59 |
| Ectasia | | | | | | | | | | | 3 2.0 |
| Hemorrhage | | | | 2 | | 2 | | | | 3 | 12 1.8 |
| Hyperplasia, Lymphoid | | 3 | 3 | 2 | 2 | 3 | 2 | | | 2 | 25 2.6 |
| Pigmentation | | | 2 | 3 | | | 2 | | | 2 | 8 2.3 |
| Lymph Node, Mediastinal | + | | | | | | | | | | 4 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 60 |
| Ectasia | | | | | | | | | | | 3 2.3 |
| Hemorrhage | | | 2 | | | 2 | | | | | 7 1.7 |
| Hyperplasia, Lymphoid | | 2 | 3 | | | 2 | | 2 | | | 14 2.3 |
| Spleen | + | + | + | + | + | + | + | + | + | + | 60 |
| Congestion | | | | | | | 3 | | | | 1 3.0 |
| Fibrosis | | 2 | 3 | | | | 2 | | | | 17 2.9 |
| Hematopoietic Cell Proliferation | | | | 2 | 2 | 2 | | | | | 16 2.0 |
| Metaplasia, Lipocyte | | | | | 1 | | | | | | 2 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 05128 - 06
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 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|
| | 3 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 3 |
| | 5 | 7 | 6 | 9 | 7 | 9 | 2 | 1 | 9 | 7 |
| | 7 | 8 | 3 | 0 | 8 | 5 | 9 | 0 | 0 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| * TOTALS | | | | | | | | | | |

| | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Pigmentation | | | 3 | | | 2 | 2 | | | | 11 2.1 |
| Lymphoid Follicle, Hyperplasia | | | | | 3 | | | | | | 1 3.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | 59 |
| Hyperplasia | | | | | | | | | | | 1 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 58 |
| Hyperplasia | | | | | | 2 | | | | | 7 2.3 |
| Skin | + | + | + | + | + | + | + | + | + | + | 60 |
| Hyperkeratosis | | | 3 | | | 3 | | | 4 | | 8 3.1 |
| Ulcer | | | | | | | | | | | 1 3.0 |
| Epidermis, Hyperplasia | | | | | | 3 | | | 3 | | 9 2.8 |
| Subcutaneous Tissue, Edema | | | 3 | | | 4 | | 4 | | | 16 3.4 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Bone | + | + | + | + | + | + | + | + | + | + | 60 |
| Fibrous Osteodystrophy | | | | | 3 | | | | | | 14 2.6 |
| Skeletal Muscle | | | | | | | | | + | | 9 |
| Edema | | | | | | | | | 3 | | 9 3.0 |

NERVOUS 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

Page 113

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 3 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 3 |
| | 5 | 7 | 6 | 9 | 7 | 9 | 2 | 1 | 9 | 7 |
| | 7 | 8 | 3 | 0 | 8 | 5 | 9 | 0 | 0 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

| | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|--------------|
| Brain | + | + | + | + | + | + | + | + | + | + | 60 |
| Developmental Malformation | | | | | | | X | | | | 3 |
| Hemorrhage | | | | | | | | | | | 1 4.0 |
| Hydrocephalus | | | | | | | | | | | 1 2.0 |
| Thrombosis | | | | | | | | | | | 1 4.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | 60 |
| Congestion | | | | | | | | | | | 2 2.0 |
| Edema | | | 2 | | | 2 | | 2 | | 2 | 19 1.6 |
| Hemorrhage | | | | | | | | | | | 3 1.3 |
| Infiltration Cellular, Histiocyte | | | 1 | | 1 | 1 | | | | | 15 1.0 |
| Inflammation, Subacute | | | | | | | | | | | 4 1.0 |
| Metaplasia, Osseous | | | | | | | | | | | 2 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | 3 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | 60 |
| Exudate | | 3 | | | | | | | 3 | | 10 3.0 |
| Foreign Body | | | | | | | | | X | | 6 |
| Mucosa, Hyperplasia | | 1 | | | | | | | 2 | | 8 1.9 |
| Mucosa, Metaplasia, Squamous | | | | | | | | | 3 | | 8 2.6 |
| Trachea | + | + | + | + | + | + | + | + | + | + | 60 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|----------|
| Ear | | | | | | | | | | | 1 |
|-----|--|--|--|--|--|--|--|--|--|--|----------|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 3 | 6 | 5 | 5 | 6 | 6 | 6 | 5 | 6 | 3 |
| | 5 | 7 | 6 | 9 | 7 | 9 | 2 | 1 | 9 | 7 |
| | 7 | 8 | 3 | 0 | 8 | 5 | 9 | 0 | 0 | 0 |
| | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5% | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

| | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--------------|
| Eye | | | | | | | | | | | 4 |
| Cataract | | | | | | | | | | | 1 2.0 |
| Congestion | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | 2 2.0 |
| Retina, Degeneration | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | | | | | | | | | 8 3.0 |
| Hydronephrosis | | | | | | | | | | | 1 3.0 |
| Inflammation, Suppurative | | | | | | | | | | | 4 1.3 |
| Mineralization | | | | | | | | | | | 2 2.5 |
| Nephropathy | 2 | 3 | 3 | 3 | 4 | 2 | 4 | 3 | 3 | 2 | 60 2.9 |
| Pelvis, Hemorrhage | | | | | | | | | | | 1 4.0 |
| Renal Tubule, Hyperplasia | | | | | | | | | | | 3 2.7 |
| Renal Tubule, Pigmentation | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 60 2.5 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | 34 1.7 |
| | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 60 |
| Hemorrhage | | | | | | | | | | | 1 3.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | 1 2.0 |

*** END OF MALE DATA ***

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parasite Metazoan | | | | | | | | | | | | X | | | | | | | | | | | | X | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parasite Metazoan | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | I | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | X | X | X | X | | X | X | | X | X | | X | X | | X | | X | | | | X | X | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | X | | | | | | X | |
| Cytoplasmic Alteration | | | | | | | | | | | | 3 | | | 3 | | | | | | | | | | |
| Eosinophilic Focus | | | | | X | | | | | X | | | | | X | | | X | | | | | | | |
| Granuloma | | | | | | | | 1 | | 1 | 1 | | | 1 | | 2 | | | | | | | | 1 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | 2 | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 05128 - 06
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
Time Report Reqsted: 11:47:58
First Dose M/F: 04/26/90 / 04/26/90
Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) | | | |
|---------------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|----------------------|
| | | 7 | 3 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 7 | 6 | 6 | 7 | 3 | 7 | 6 | | 5 | 7 | 6 |
| UNTREATDCONTROL | | 4 | 5 | 4 | 0 | 7 | 2 | 1 | 8 | 5 | 2 | 3 | 5 | 5 | 6 | 1 | 4 | 0 | 8 | 4 | 5 | 4 | 9 | 7 | 4 | 0 | |
| ANIMAL ID | | 2 | 8 | 2 | 1 | 1 | 2 | 9 | 9 | 0 | 9 | 0 | 6 | 8 | 0 | 2 | 2 | 7 | 4 | 2 | 8 | 2 | 9 | 2 | 2 | 2 | |
| FISCHER 344 RATS FEMALE | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | X | | | | | | X | | | | | | | X | | |
| Inflammation, Subacute | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Mixed Cell Focus | | X | | | | | | | | | | | | | | | | | | X | | X | X | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | 1 | | | 2 | 1 | | | | | | | | | | | | | | | 1 | | | |
| Centrilobular, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | 4 | | | | 3 | | | | 4 | | | | | | | | | | |
| Kupffer Cell, Pigmentation | | | 2 | | | | | | 2 | | 2 | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | + | | | | + | | | | + | | | | | | | | | | | | | + | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | 2 | | 3 | | | | | | | | 3 | 3 | | | | | 2 | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | 3 | | | | | 1 | | | | 3 | | | 1 | 2 | | | | | | | | | | 1 | | |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | 4 | | | | | | | | 4 | | |
| Acinar Cell, Hyperplasia, Focal | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | 3 | | | | | | | | | | 3 | 3 | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | 4 | | | | 2 | | | 1 | 3 | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | 2 | | | | | | | 3 | 3 | | | | | | | | | | | | |

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

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

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

Page 117

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular Erosion
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex Accessory Adrenal Cortical Nodule
Degeneration, Fatty | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla 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
 Page 118

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
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 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------|
| | 7 3 7 7 6 7 7 5 6 7 7 6 3 6 7 7 6 6 7 3 7 6 5 7 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 5 4 0 7 2 1 8 5 2 3 5 5 6 1 4 0 8 4 5 4 9 7 4 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 8 2 1 1 2 9 9 0 9 0 6 8 0 2 2 7 4 2 8 2 9 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
UNTREATDCONTROL | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| | 0 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic
Hyperplasia | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Parathyroid Gland | + + + + + + + + + + M + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 3 3 3 3 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 3 3 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Thyroid Gland | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 1 3 1 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|
| Clitoral Gland | + + + M + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
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 D & C YELLOW NO. 11
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 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------|
| | 7 3 7 7 6 7 7 5 6 7 7 6 3 6 7 7 6 6 7 3 7 6 5 7 6
4 5 4 0 7 2 1 8 5 2 3 5 5 6 1 4 0 8 4 5 4 9 7 4 0
2 8 2 1 1 2 9 9 0 9 0 6 8 0 2 2 7 4 2 8 2 9 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
UNTREATDCONTROL | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 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
4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6
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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary Cyst | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus Hydrometra Hyperplasia, Cystic | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 1 1 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | M M M | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow Hyperplasia Infiltration Cellular, Histiocyte Myelofibrosis Necrosis | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 3 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node Inguinal, Hyperplasia, Lymphoid Mediastinal, Hemorrhage Mediastinal, Pigmentation Pancreatic, Hemorrhage Pancreatic, Hyperplasia, Lymphoid Pancreatic, Pigmentation | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 2 3 4 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular Ectasia Hemorrhage Hyperplasia, Lymphoid | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 2 2 1 2 2 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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pigmentation | 2 | 2 | | | | 2 | 2 | 2 | | | 2 | 2 | | | 2 | 2 | | | 2 | 2 | 2 | | | | |
| Lymph Node, Mediastinal | | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | 2 | | | 2 | 1 | 4 | 3 | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 2 | | 2 | 3 | 1 | | | 2 | | | 2 | 4 | | | 1 | | | 4 | 3 | 1 | | 2 | | 3 | 1 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Necrosis | | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | 2 | | 3 | 3 | | | 2 | | 2 | 2 | 3 | | 2 | 4 | 2 | | | 2 | 2 | 2 | 3 | | 3 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | | 2 | | 3 | 2 | 4 | 2 | 3 | 4 | 2 | 4 | | 2 | 3 | 2 | 2 | 3 | 3 | | 3 | 2 | 2 | 2 | 3 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
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TDMS No. 05128 - 06
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D & C YELLOW NO. 11
CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
Time Report Reqsted: 11:47:58
First Dose M/F: 04/26/90 / 04/26/90
Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 3 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 7 | 6 | 6 | 7 | 3 | 7 | 6 | 5 | 7 | 6 | |
| | 4 | 5 | 4 | 0 | 7 | 2 | 1 | 8 | 5 | 2 | 3 | 5 | 5 | 6 | 1 | 4 | 0 | 8 | 4 | 5 | 4 | 9 | 7 | 4 | 0 | |
| | 2 | 8 | 2 | 1 | 1 | 2 | 9 | 9 | 0 | 9 | 0 | 6 | 8 | 0 | 2 | 2 | 7 | 4 | 2 | 8 | 2 | 9 | 2 | 2 | 2 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| UNTREATDCONTROL | 0 | 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 | 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 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 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 | |
| Cranium, Osteopetrosis | | | | | | 3 | | | 2 | | | | | 2 | | | | | | | | | | 2 | | |
| Femur, Osteopetrosis | | | | | | 2 | | | | | | | | | | | | | | | | | | 3 | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Developmental Malformation | X | | | X | | | | | | X | | | | X | | | | | | X | | X | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | 1 | | | 1 | | 1 | | 1 | 1 | 1 | | | 1 | 1 | | | | 1 | | | 1 | 1 | 1 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exudate | | | | 3 | | | | | 3 | | | | | | | | | 3 | | | | 3 | | | |
| Foreign Body | | | | X | | | | | | | | | | | | | | | | | | X | | | |
| Mucosa, Hyperplasia | | | | 1 | | | | | 1 | | | | | | | | | | | | | | | | |
| Mucosa, Metaplasia, Squamous | | | | | | | | | 1 | | | | | | | | | | | | | 2 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
x .. Lesion present
l .. 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. 05128 - 06
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |

| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | |
| Mineralization | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | | | | | | | | | | | | | | | | |
| Nephropathy | 3 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 3 | 1 | 3 | 2 | 1 | 2 | | | | | | | | | | | | | | | | |
| Renal Tubule, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Page 123

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
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 Lab: SRI

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

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum
Edema
Parasite Metazoan | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon
Parasite Metazoan | + + + + + + + + + + + + + + + + + + + + + + + + +
X X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum
Parasite Metazoan | + + + + + + + + + + + + + + + + + + + + + M + + + + +
X X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | X X X X X X X X X X X X X X X X X X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Cytoplasmic Alteration | X X X X X X X X X X X X X X X X X X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | X X X X X X X X X X X X X X X X X X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 I .. Insufficient tissue
 M .. Missing tissue
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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|
| | 7 | 3 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 3 | 7 | 7 | 5 | 7 | 5 | 3 | 7 | 7 | | |
| | 4 | 5 | 4 | 4 | 4 | 7 | 5 | 3 | 4 | 4 | 4 | 4 | 5 | 3 | 4 | 5 | 4 | 5 | 3 | 4 | 7 | 4 | 8 | 5 | 4 | 4 | | |
| | 2 | 8 | 2 | 2 | 2 | 2 | 8 | 0 | 2 | 2 | 2 | 2 | 8 | 4 | 2 | 1 | 2 | 8 | 4 | 2 | 0 | 2 | 9 | 8 | 2 | 2 | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 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 | |
| UNTREATDCONTROL | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 0 | females (cont...) |
| | 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 | | |
| Hepatodiaphragmatic Nodule | | | | | | X | | | | | | X | X | | | | | | | | | | | | | | | |
| Inflammation, Subacute | | | | | | | 1 | | 1 | | | | 1 | | 1 | | | | | | | | | | | | | |
| Mixed Cell Focus | X | | X | | | | | X | X | | | | | | | | X | | | X | | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 1 | | 1 | | 1 | 1 | | | | | | | 1 | | 2 | | | | | 1 | 1 | | | | 2 | 1 | | |
| Centrilobular, Atrophy | | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | 3 | | | | | | | | | 4 | | | | | | | | | 3 | | | |
| Kupffer Cell, Pigmentation | | | | | | 2 | 2 | | | | | | 2 | | 3 | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | | | | | 4 | 2 | | | | | | | 2 | | | | 2 | | | 4 | | 3 | | 3 | |
| Pars Distalis, Cyst | | X | | 3 | 3 | | | | 3 | 3 | 3 | X | 3 | 3 | | 3 | X | 3 | 3 | | 3 | 3 | | 3 | |
| Pars Distalis, Hyperplasia, Focal | | | | 3 | | | | | 3 | | 3 | 3 | | | | | | | | | | | | 3 | |
| Pars Intermedia, Angiectasis | | | | 3 | 3 | 2 | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ultimobranchial Cyst | 3 | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| C-cell, Hyperplasia | 1 | | | | | 2 | | | | | | | 1 | | | 1 | | | | | | | | 1 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 05128 - 06
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
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Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------------------------------------------|
| | 7 3 7 7 7 5 3 7 7 7 7 7 3 7 7 6 7 3 7 7 5 7 5 3 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
UNTREATDCONTROL | 4 5 4 4 4 7 5 3 4 4 4 4 5 3 4 5 4 5 3 4 7 4 8 5 4 | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| | 2 8 2 2 2 2 8 0 2 2 2 2 8 4 2 1 2 8 4 2 0 2 9 8 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 6 6 6 7 7 7 7 7 7 7 7 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | X 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 |
| Uterus | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | M + |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------|
| Bone Marrow | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 3 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | + + + + |
| Inguinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | + + |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 3 3 |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Lymph Node, Mandibular | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 3 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 2 1 2 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 2 4 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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TDMS No. 05128 - 06
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 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 7 | 3 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 3 | 7 | 7 | 5 | 7 | 5 | 3 | 7 | | |
| | 4 | 5 | 4 | 4 | 4 | 7 | 5 | 3 | 4 | 4 | 4 | 4 | 5 | 3 | 4 | 5 | 4 | 5 | 3 | 4 | 7 | 4 | 8 | 5 | 4 | | |
| | 2 | 8 | 2 | 2 | 2 | 2 | 8 | 0 | 2 | 2 | 2 | 2 | 8 | 4 | 2 | 1 | 2 | 8 | 4 | 2 | 0 | 2 | 9 | 8 | 2 | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| UNTREATDCONTROL | 0 | 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 | 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 | | |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | | |
| | 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 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 2 | 2 | | | | | | 2 | 2 | | | 2 | 3 | | | | | | | | | | | | | | |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hematopoietic Cell Proliferation | 2 | | 2 | | | | | | | | 3 | 2 | | | 3 | 2 | | | | 3 | 4 | 3 | | 2 | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | | 2 | | | | 2 | 2 | 2 | 3 | | | | 3 | 2 | 2 | | 2 | | | | | 2 | 2 | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 3 | | 2 | 4 | 2 | 2 | | 4 | | 3 | 3 | 2 | 2 | 3 | 2 | 4 | 2 | | | 3 | 2 | 2 | 4 | | + | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
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| 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 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 3 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 3 | 7 | 7 | 5 | 7 | 5 | 3 | 7 |
| | 4 | 5 | 4 | 4 | 4 | 7 | 5 | 3 | 4 | 4 | 4 | 4 | 5 | 3 | 4 | 5 | 4 | 5 | 3 | 4 | 7 | 4 | 8 | 5 | 4 |
| | 2 | 8 | 2 | 2 | 2 | 2 | 8 | 0 | 2 | 2 | 2 | 2 | 8 | 4 | 2 | 1 | 2 | 8 | 4 | 2 | 0 | 2 | 9 | 8 | 2 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UNTREATDCONTROL | 0 | 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 | 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 |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| | 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 |

females
(cont...)

Cranium, Osteopetrosis 3
 Femur, Osteopetrosis 2 2

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hydrocephalus | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exudate | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 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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 Lab: SRI

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 60 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 60 | |
| Edema | | | | | | | | | | | | 1 2.0 |
| Parasite Metazoan | | | | | | | X | | | | | 1 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 60 | |
| Parasite Metazoan | | | | | | | | | | | | 5 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 59 | |
| Parasite Metazoan | | X | | | X | | | | | | | 5 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 60 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 58 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 59 | |
| Liver | + | + | + | + | + | + | + | + | + | + | 60 | |
| Angiectasis | | | | | | | | | | | | 2 |
| Basophilic Focus | X | | X | | X | | X | | X | X | | 1 2.0 |
| Clear Cell Focus | | | | | | | X | | | | | 39 |
| Cytoplasmic Alteration | | | | | | | | | | | | 10 |
| Eosinophilic Focus | | | | X | | X | | | | | | 2 3.0 |
| Granuloma | | | | | 1 | | | | | | | 10 |
| Hematopoietic Cell Proliferation | 2 | | | | | | | | | | | 1.1 |
| | | | | | | | | | | | | 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|--|-----------------|
| | 4 | 3 | 7 | 7 | 7 | 5 | 7 | 6 | 3 | 7 | | |
| | 8 | 5 | 3 | 0 | 4 | 3 | 4 | 2 | 5 | 4 | | |
| | 1 | 8 | 4 | 0 | 2 | 7 | 2 | 9 | 8 | 2 | | |
| | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| UNTREATDCONTROL | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | * TOTALS |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | 7 |
| Inflammation, Subacute | | | | | | | | | | | | 5 1.0 |
| Mixed Cell Focus | | | | | | | | | | | | 12 |
| Necrosis, Focal | | | | | | | | | | | | 2 2.5 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | 15 1.3 |
| Centrilobular, Atrophy | | | | | | | | | | | | 4 2.3 |
| Centrilobular, Necrosis | | | | | | | | | | | | 1 3.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | 6 3.5 |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | 9 2.1 |
| | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | 12 |
| Accessory Spleen | | | | | | | | | | | | 1 |
| Angiectasis | | | | | | | | | | | | 1 4.0 |
| Fat, Necrosis | | | | | | | | | | | | 9 2.8 |
| | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | | 60 |
| Atrophy | | | | | | | | | | | | 11 1.8 |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | | | | | | 3 3.7 |
| Acinar Cell, Hyperplasia, Focal | | | | | | | | | | | | 1 1.0 |
| | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | | 60 |
| | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | | 60 |
| Edema | | | | | | | | | | | | 5 3.0 |
| Fibrosis | | | | | | | | | | | | 1 2.0 |
| Ulcer | | | | | | | | | | | | 4 2.5 |
| Mucosa, Hyperplasia | | | | | | | | | | | | 5 2.4 |
| | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--|-----------------|
| | 4 | 3 | 7 | 7 | 7 | 5 | 7 | 6 | 3 | 7 | | |
| | 8 | 5 | 3 | 0 | 4 | 3 | 4 | 2 | 5 | 4 | | |
| | 1 | 8 | 4 | 0 | 2 | 7 | 2 | 9 | 8 | 2 | | |
| | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| UNTREATDCONTROL | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | * TOTALS |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | | 60 |
| Erosion | | | | | | | | | | | | 2 2.0 |
| Ulcer | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | 1 |
| Developmental Malformation | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | | 60 |
| | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | | 60 |
| Cardiomyopathy | | | | | | | 3 | 1 | | 1 | | 17 1.5 |
| | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | | 60 |
| Accessory Adrenal Cortical Nodule | | | | | | | | 2 | | 3 | | 5 2.2 |
| Degeneration, Fatty | | | | 1 | | | | | | | | 9 1.3 |
| Hematopoietic Cell Proliferation | 2 | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Focal | | | | | | | | | | | | 3 1.7 |
| Hypertrophy | | | | | | | | | | | | 2 2.5 |
| Hypertrophy, Focal | | | | | | | | | | | | 3 1.7 |
| | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | | 58 |
| Hyperplasia | | | | | | | | | | | | 3 1.3 |
| | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
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Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 4 | 3 | 7 | 7 | 7 | 5 | 7 | 6 | 3 | 7 | | |
| | 8 | 5 | 3 | 0 | 4 | 3 | 4 | 2 | 5 | 4 | | |
| | 1 | 8 | 4 | 0 | 2 | 7 | 2 | 9 | 8 | 2 | | |
| | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| UNTREATDCONTROL | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | * TOTALS |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | | 60
1 3.0 |
| Parathyroid Gland | + | + | + | + | M | + | + | + | + | + | | 58 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | | 60 |
| Pars Distalis, Angiectasis | | | | 3 | | | 3 | | | | | 11 2.8 |
| Pars Distalis, Cyst | 3 | | | 3 | | | 3 | | X | 3 | | 29 3.0 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | 1 | 10 2.6 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | 3 2.7 |
| Pars Intermedia, Cyst | | X | | | | | | | | | | 1 |
| Pars Intermedia, Hyperplasia | | | | | | | | 2 | | | | 2 2.5 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | | 60 |
| Ultimobranchial Cyst | | | | | | 3 | | | | | | 3 3.0 |
| C-cell, Hyperplasia | | | 1 | 1 | 2 | | | | | 1 | | 13 1.3 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | 1 1.0 |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|--|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | | 59 |
| Cyst | | | | | | | | | | | | 2 2.5 |
| Hyperplasia | | | | | | | | | | | | 3 2.0 |
| Inflammation, Suppurative | | | | | | | | | | | | 2 2.5 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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TDMS No. 05128 - 06
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 4 | 3 | 7 | 7 | 7 | 5 | 7 | 6 | 3 | 7 | |
| | 8 | 5 | 3 | 0 | 4 | 3 | 4 | 2 | 5 | 4 | |
| | 1 | 8 | 4 | 0 | 2 | 7 | 2 | 9 | 8 | 2 | |
| | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| UNTREATDCONTROL | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | | | | 3 | 3 | | | 3 | 14 3.0 |
| | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | 60 |
| Hydrometra | | | | | | | | | | | 2 3.0 |
| Hyperplasia, Cystic | | | | | | | | | | | 5 2.2 |
| | | | | | | | | | | | |
| Vagina | | | | M | | | M | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 60 |
| Hyperplasia | 3 | | | | | | | | | | 4 3.3 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | 1 4.0 |
| Myelofibrosis | | | | | | | | | | | 3 3.0 |
| Necrosis | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | |
| Lymph Node | + | | | + | | | | | | | 10 |
| Inguinal, Hyperplasia, Lymphoid | 2 | | | | | | | | | | 1 2.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | 2 3.0 |
| Mediastinal, Pigmentation | | | | 3 | | | | | | | 6 3.0 |
| Pancreatic, Hemorrhage | | | | | | | | | | | 1 2.0 |
| Pancreatic, Hyperplasia, Lymphoid | 2 | | | | | | | | | | 1 2.0 |
| Pancreatic, Pigmentation | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 60 |
| Ectasia | | | | | | | | | | | 1 2.0 |
| Hemorrhage | | | | | | | | | | | 13 1.8 |
| Hyperplasia, Lymphoid | | | | | | | 2 | | | | 5 2.6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 05128 - 06
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 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------------------|---------------------|---|---|---|---|---|---|---|---|---|--|-----------------|
| | 4 | 3 | 7 | 7 | 7 | 5 | 7 | 6 | 3 | 7 | | |
| | 8 | 5 | 3 | 0 | 4 | 3 | 4 | 2 | 5 | 4 | | |
| | 1 | 8 | 4 | 0 | 2 | 7 | 2 | 9 | 8 | 2 | | |
| | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| UNTREATDCONTROL | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | * TOTALS |
| Pigmentation | 2 2 2 2 | | | | | | | | | | | 24 2.0 |
| | | | | | | | | | | | | |
| Lymph Node, Mediastinal | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + + + + + + + + + + | | | | | | | | | | | 60 |
| Hemorrhage | | | | | | | | | | | | 5 2.4 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 2 3.5 |
| | | | | | | | | | | | | |
| Spleen | + + + + + + + + + + | | | | | | | | | | | 60 |
| Hematopoietic Cell Proliferation | 3 2 1 2 | | | | | | | | | | | 28 2.3 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | 1 4.0 |
| Necrosis | | | | | | | | | | | | 1 3.0 |
| Pigmentation | 2 2 2 2 2 3 3 2 2 | | | | | | | | | | | 37 2.4 |
| | | | | | | | | | | | | |
| Thymus | + + + + + + + + + + | | | | | | | | | | | 60 |
| | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Mammary Gland | + + + + + + + + + + | | | | | | | | | | | 60 |
| Hyperplasia | 2 3 4 2 2 2 3 3 | | | | | | | | | | | 47 2.7 |
| | | | | | | | | | | | | |
| Skin | + + + + + + + + + | | | | | | | | | | | 59 |
| | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Bone | + + + + + + + + + + | | | | | | | | | | | 60 |
| Fibrous Osteodystrophy | | | | | | | | | | | | 1 2.0 |

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 Lab: SRI

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

*** TOTALS**

| | | | | | | | | | | | |
|------------------------|--|--|--|---|--|--|---|--|--|--|--------------|
| Cranium, Osteopetrosis | | | | | | | 2 | | | | 6 2.3 |
| Femur, Osteopetrosis | | | | 2 | | | | | | | 5 2.2 |

NERVOUS SYSTEM

| | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|--------------|
| Brain | + | + | + | + | + | + | + | + | + | + | 60 |
| Developmental Malformation | | | | | | X | | X | | | 9 |
| Hydrocephalus | | | | | | | | 2 | | | 2 2.0 |
| | | | | | | | | | | | |
| Peripheral Nerve | | | | + | | | | | | | 2 |
| | | | | | | | | | | | |
| Spinal Cord | | | | + | | | | | | | 3 |
| Necrosis | | | | | | | | | | | 1 3.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | 60 |
| Hemorrhage | | 2 | | | | | | | | | 1 2.0 |
| Infiltration Cellular, Histiocyte | | | | 1 | 1 | | 1 | | | 1 | 38 1.0 |
| Alveolar Epithelium, Hyperplasia | | 2 | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | 60 |
| Exudate | | | | | | | | | | | 5 3.0 |
| Foreign Body | | | | | | | | | | | 2 |
| Mucosa, Hyperplasia | | | | | | | | | | | 4 1.3 |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | 3 1.3 |

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Page 138

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
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 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|---|---|---|---|---|---|---|---|---|-----------------|
| | 4 | 3 | 7 | 7 | 7 | 5 | 7 | 6 | 3 | 7 |
| | 8 | 5 | 3 | 0 | 4 | 3 | 4 | 2 | 5 | 4 |
| | 1 | 8 | 4 | 0 | 2 | 7 | 2 | 9 | 8 | 2 |
| | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UNTREATDCONTROL | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | * TOTALS |
| Trachea | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | 60 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | |
| | | | | | | | | | | |
| Eye | | | | | | | | | | 1 |
| Atrophy | | | | | | | | | | 1 3.0 |
| URINARY SYSTEM | | | | | | | | | | |
| | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + |
| Mineralization | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 2 |
| Nephropathy | | 1 | 2 | 1 | 1 | 2 | 1 | 3 | | 1 |
| Renal Tubule, Cytoplasmic Alteration | | | | | | | | | | 1 3.0 |
| Renal Tubule, Necrosis | | | | | | | | | | 1 3.0 |
| Renal Tubule, Pigmentation | | | 1 | 1 | | | | | | 10 1.3 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | 2 1.0 |
| | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | 60 |

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 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------|-----------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 6 7 3 7 3 7 7 6 7 3 6 6 5 6 7 6 3 6 7 3 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.05% ANIMAL ID | 3 4 2 4 5 4 5 4 4 7 4 5 2 3 4 8 4 8 5 2 2 0 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 0 2 0 8 0 8 0 0 2 0 8 2 1 8 8 0 8 8 9 6 8 0 5 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.05% 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
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| | 1 2 3 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 2 2 2 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + + + + + + + + + + + + + + + + + + + + + + M + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum
Edema | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + + + + + + + + + + + M + + M + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum
Parasite Metazoan | I + + + + + + + + + + + + + + + + + + + + + + X | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum
Ulcer
Epithelium, Hyperplasia | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum
Epithelium, Hyperplasia | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum
Epithelium, Hyperplasia | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X X X X X X X X X X X X X X X X X X X X X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | X X X X X X X X X X X X X X X X X X X X X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic 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 | | | | | | | | | | | | | | | | | | | | | | | | |

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

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| 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 | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 6 7 3 7 3 7 7 6 7 3 6 6 5 6 7 6 3 6 7 3 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.05% ANIMAL ID | 3 4 2 4 5 4 5 4 4 7 4 5 2 3 4 8 4 8 5 2 2 0 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 0 2 0 8 0 8 0 0 2 0 8 2 1 8 8 0 8 8 9 6 8 0 5 0 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.05% 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 | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | X | | | | | X | | | | | | | | | | | | X | | | | | X | | |
| Inflammation, Subacute | | | | 2 | | | 1 | | | | | 1 | | | | | | 1 | | | | | | | |
| Mixed Cell Focus | X | | | | | X | | X | X | | X | | X | | X | | | | | | | X | | X | |
| Necrosis, Focal | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | 2 | | 2 | | | 2 | | | | 1 | | | | | | | |
| Bile Duct, Pigmentation | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Centrilobular, Atrophy | | | | | | | | | | | | | 2 | | | | | | 2 | 3 | 3 | | | | |
| Hepatocyte, Cytologic Alterations | 2 | | | 2 | 1 | | | | | | | 1 | | | | | | | | | | | 2 | | 2 |
| Hepatocyte, Pigmentation | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Kupffer Cell, Pigmentation | | | | | | | | | 3 | | | | 1 | | | | | | 3 | 1 | | | 3 | | |
| Mesentery | + | | | | | | | | | | | | + | + | + | | | | + | + | | | + | + | |
| Fat, Necrosis | 2 | | | | | | | | | | | | 2 | 2 | 3 | | 3 | | | 3 | 3 | | | 3 | 2 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | 2 | | | | | 1 | 2 | | | | | | | | | | 3 | 3 | | | 3 | |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia, Focal | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | 1 | | 1 | | | | 2 | | | | | | | | | | | | | | 2 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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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 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 6 7 3 7 3 7 7 6 7 3 6 6 5 6 7 6 3 6 7 3 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.05% ANIMAL ID | 3 4 2 4 5 4 5 4 4 7 4 5 2 3 4 8 4 8 5 2 2 0 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 0 2 0 8 0 8 0 0 2 0 8 2 1 8 8 0 8 8 9 6 8 0 5 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.05% 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Mucosa, Hyperplasia | 1 1 1 1 1 1 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular Edema Erosion Ulcer | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Adrenal Cortex | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Adrenal Cortical Nodule | 2 X 1 1 1 1 X X 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Fatty | 1 3 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 3 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla 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:
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 Page 142

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

FISCHER 344 RATS FEMALE
 ANIMAL ID
0.05%

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 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 | 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 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Angiectasis | | | | 2 | | | | | | | | | | | | | | | | | | | 4 | | |
| Pars Distalis, Cyst | 3 | | | | X | 3 | | | | 3 | 3 | X | | | | | 3 | X | 3 | 3 | | | | | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | X | | | 3 | | | |
| C-cell, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | 3 | | | | | | | | | X | | | | | | | | 3 | X | 3 | 3 | 3 |

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|--------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 6 7 3 7 3 7 7 6 7 3 6 6 5 6 7 6 3 6 7 3 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.05% ANIMAL ID | 3 4 2 4 5 4 5 4 4 7 4 5 2 3 4 8 4 8 5 2 2 0 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 0 2 0 8 0 8 0 0 2 0 8 2 1 8 8 0 8 8 9 6 8 0 5 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.05% 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-----------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Uterus | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Cystic | 2 3 3 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | M | | | | | | | | | | | | M | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | 2 2 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 1 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 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 | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
 Page 144

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 7 | 7 | 6 | 7 | 3 | 7 | 3 | 7 | 7 | 6 | 7 | 3 | 6 | 6 | 5 | 6 | 7 | 6 | 3 | 6 | 7 | 3 | 7 | 6 | 7 | |
| | 3 | 4 | 2 | 4 | 5 | 4 | 5 | 4 | 4 | 7 | 4 | 5 | 2 | 3 | 4 | 8 | 4 | 8 | 5 | 2 | 2 | 0 | 4 | 4 | 4 | |
| | 4 | 0 | 2 | 0 | 8 | 0 | 8 | 0 | 0 | 2 | 0 | 8 | 2 | 1 | 8 | 8 | 0 | 8 | 8 | 9 | 6 | 8 | 0 | 5 | 0 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.05% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 2 | 2 | 2 | 2 | 2 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | | | + |

MUSCULOSKELETAL SYSTEM

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

* .. 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
 Page 145

TDMS No. 05128 - 06
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
D & C YELLOW NO. 11
CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
Time Report Reqsted: 11:47:58
First Dose M/F: 04/26/90 / 04/26/90
Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 6 | 7 | 3 | 7 | 3 | 7 | 7 | 6 | 7 | 3 | 6 | 6 | 5 | 6 | 7 | 6 | 3 | 6 | 7 | 3 | 7 | 6 | 7 |
| | 3 | 4 | 2 | 4 | 5 | 4 | 5 | 4 | 4 | 7 | 4 | 5 | 2 | 3 | 4 | 8 | 4 | 8 | 5 | 2 | 2 | 0 | 4 | 4 | 4 |
| | 4 | 0 | 2 | 0 | 8 | 0 | 8 | 0 | 0 | 2 | 0 | 8 | 2 | 1 | 8 | 8 | 0 | 8 | 8 | 9 | 6 | 8 | 0 | 5 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.05% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|--|--|--|--|--|---|---|--|--|---|--|--|--|--|--|--|--|---|--|---|--|--|--|
| Cranium, Osteopetrosis | 2 | | | | | | | 3 | | | | 3 | | | | | | | | 2 | | 2 | | | |
| Femur, Osteopetrosis | 2 | | | | | | | 3 | 2 | | | | | | | | | | | 2 | | | | | |

Skeletal Muscle

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Developmental Malformation | | X | | | | | | | | | | | X | | X | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | + |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Histiocyte | 1 | 1 | | | | 1 | | 1 | 2 | | 1 | | 1 | | | | | | 1 | | 1 | | 2 | 1 | |
| Inflammation, Subacute | | | | 1 | | | 1 | | | | | | | | | | | | 1 | | | | | 2 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Nose | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exudate | | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 6 7 3 7 3 7 7 6 7 3 6 6 5 6 7 6 3 6 7 3 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.05% ANIMAL ID | 3 4 2 4 5 4 5 4 4 7 4 5 2 3 4 8 4 8 5 2 2 0 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 0 2 0 8 0 8 0 0 2 0 8 2 1 8 8 0 8 8 9 6 8 0 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 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 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

Mucosa, Metaplasia, Squamous 3

Trachea + + + + + + + + + + + + + + + + + + + + + + + + +

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ear | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | 4 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | 4 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 2 1 1 2 2 3 2 2 2 2 2 2 2 1 2 2 3 3 1 2 2 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 2 1 3 1 1 1 3 1 1 2 1 1 1 1 2 1 2 2 1 2 1 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | 2 2 1 2 2 2 1 2 2 1 1 1 1 2 2 1 1 1 2 3 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 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
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 M .. Missing tissue
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TDMS No. 05128 - 06
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
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 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 6 | 3 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 3 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 3 | 6 | 7 |
| | | 2 | 5 | 4 | 0 | 4 | 4 | 5 | 4 | 4 | 4 | 0 | 5 | 4 | 4 | 3 | 9 | 4 | 1 | 1 | 4 | 9 | 4 | 5 | 5 | 4 |
| | | 8 | 8 | 0 | 5 | 0 | 0 | 8 | 0 | 0 | 2 | 1 | 8 | 0 | 1 | 1 | 5 | 1 | 6 | 2 | 1 | 3 | 1 | 8 | 6 | 1 |
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.05% | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum Parasite Metazoan | + | + | + | + | + | + | + | + | + | X | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum Ulcer Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver Angiectasis Basophilic Focus Clear Cell Focus Cyst Eosinophilic Focus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + |
| | | | X | | | X | X | | X | | | X | X | X | | X | | | X | X | | | X | X | |
| | | X | X | | | X | X | | X | X | | | X | | | X | | | X | X | | | | | |
| | | | | | | | | | | | | | | | | | 3 | | | | | | | 3 | |
| | | | | | | | | X | X | | | | | | | | | | X | X | X | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 l .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 Page 148
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
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 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 3 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 3 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 3 | 6 | 7 |
| FISCHER 344 RATS FEMALE
0.05% ANIMAL ID | 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 |
| 0.05% ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0.05% ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 5 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Subacute | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Pigmentation | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 |
| Centrilobular, Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Cytologic Alterations | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 3 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 3 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 3 | 6 | 7 |
| | 2 | 5 | 4 | 0 | 4 | 4 | 5 | 4 | 4 | 4 | 0 | 5 | 4 | 4 | 3 | 9 | 4 | 1 | 1 | 4 | 9 | 4 | 5 | 5 | 4 |
| | 8 | 8 | 0 | 5 | 0 | 0 | 8 | 0 | 0 | 2 | 1 | 8 | 0 | 1 | 1 | 5 | 1 | 6 | 2 | 1 | 3 | 1 | 8 | 6 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.05% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mucosa, Hyperplasia | 1 | | 2 | 1 | 1 | | | | | 1 | | | | | 2 | | | | | 1 | 2 | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | 2 | | | | 2 | | | | | | | | | | |
| Erosion | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | 2 | | | | | 3 | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | 2 | | | | | | | | | | | 1 | 1 | 1 | 2 | | 2 | | 2 | | 2 | | 3 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | 2 | | | | X | | | | | | | | | | 1 | | 1 | | | | X | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Fatty | | | 2 | | | | | | | 3 | | | | | | | | | | | | | | | 1 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | 2 | | | | | | | | | | | | | | | | | | | | 2 | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
| | | 6 | 3 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 3 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 3 | 6 | 7 |
| | | 2 | 5 | 4 | 0 | 4 | 4 | 5 | 4 | 4 | 4 | 0 | 5 | 4 | 4 | 3 | 9 | 4 | 1 | 1 | 4 | 9 | 4 | 5 | 4 |
| | | 8 | 8 | 0 | 5 | 0 | 0 | 8 | 0 | 0 | 2 | 1 | 8 | 0 | 1 | 1 | 5 | 1 | 6 | 2 | 1 | 3 | 1 | 8 | 6 |
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 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 |
| 0.05% | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hydrometra | 2 | | | | 2 | | | | | 2 | | | 2 | | | | | | | | | | | |
| Hyperplasia, Cystic | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Vagina | M | | | | | | | | | | | | | | | | | | M | M | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | + | | | + | | + | | | | + | | | | | | | + | + | | | | | + |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | 2 | | | | 1 | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | 4 | | | | 2 | | | | 3 | | | | | | | 3 | | | | | 3 | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | | | | | | | | | | | | | | | | | 3 | | | | | | 3 |
| Hemorrhage | | | | | | | | 1 | | | | 2 | 1 | | | | 1 | | 3 | | | | 1 | |
| Hyperplasia, Lymphoid | | | | | | | | 2 | | | | | | | | | 3 | | | | | | | |
| Pigmentation | | | 2 | 2 | 2 | | | 2 | | 2 | | | 2 | | | | | | 2 | 2 | 2 | 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
| | 6 | 3 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 3 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 3 | 6 | 7 | | |
| | 2 | 5 | 4 | 0 | 4 | 4 | 5 | 4 | 4 | 4 | 0 | 5 | 4 | 4 | 3 | 9 | 4 | 1 | 1 | 4 | 9 | 4 | 5 | 5 | 4 | | |
| | 8 | 8 | 0 | 5 | 0 | 0 | 8 | 0 | 0 | 2 | 1 | 8 | 0 | 1 | 1 | 5 | 1 | 6 | 2 | 1 | 3 | 1 | 8 | 6 | 1 | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.05% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 | | females (cont...) |

Cranium, Osteopetrosis 3 3
 Femur, Osteopetrosis 3 2

Skeletal Muscle +

NERVOUS SYSTEM

Brain
 Developmental Malformation + + + + + + + + + + + + + + + + + + + + + + + +
 X X X X X X X X

Peripheral Nerve
 Degeneration +
 Inflammation, Chronic

Spinal Cord +

RESPIRATORY SYSTEM

Lung
 Infiltration Cellular, Histiocyte + + + + + + + + + + + + + + + + + + + + + + + +
 Inflammation, Subacute 1 1 1 1 2 1 1 1 1 1 1 2 1 1
 Alveolar Epithelium, Hyperplasia

Nose
 Exudate + + + + + + + + + + + + + + + + + + + + + + + +
 Foreign Body X 3 3 3
 Mucosa, Hyperplasia 1 2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 154

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 3 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 6 | 3 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 3 | 6 | 7 | | |
| | 2 | 5 | 4 | 0 | 4 | 4 | 5 | 4 | 4 | 4 | 0 | 5 | 4 | 4 | 3 | 9 | 4 | 1 | 1 | 4 | 9 | 4 | 5 | 5 | 4 | |
| | 8 | 8 | 0 | 5 | 0 | 0 | 8 | 0 | 0 | 2 | 1 | 8 | 0 | 1 | 1 | 5 | 1 | 6 | 2 | 1 | 3 | 1 | 8 | 6 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.05% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 | |

females
(cont...)

Mucosa, Metaplasia, Squamous

Trachea + + + + + + + + + + + + + + + + + + + + + + + + +

SPECIAL SENSES SYSTEM

Ear +

Eye
 Cataract
 Retina, Degeneration

Harderian Gland

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 3 | | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | |
| Nephropathy | 1 | 1 | 3 | 4 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | | 1 | 2 | 2 | 1 | 2 | 2 | | 1 | 3 | 1 | 1 | 1 | 2 |
| Renal Tubule, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 1 | 3 | 3 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | | 2 |
| Transitional Epithelium, Hyperplasia | | | | | 2 | | | | | | 1 | | | | | | | | 1 | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------|---|---|---|---|---|---|---|---|---|-----------------|
| | | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 5 | 4 | 7 |
| | | 4 | 4 | 4 | 0 | 4 | 4 | 5 | 4 | 6 | 4 |
| | | 1 | 1 | 1 | 0 | 1 | 1 | 8 | 6 | 2 | 1 |
| | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.05% | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | * TOTALS |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|----|---------------------------------|
| Esophagus | M | I | + | + | + | + | + | + | + | + | + | 57 | |
| Intestine Large, Cecum
Edema | + | + | + | + | + | + | + | + | + | + | + | 60 | 1 2.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | 58 | |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | 59 | 4 |
| Intestine Small, Duodenum
Ulcer
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | 60 | 1 3.0
1 2.0 |
| Intestine Small, Ileum
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | 60 | 1 2.0 |
| Intestine Small, Jejunum
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | 60 | 1 2.0 |
| Liver
Angiectasis
Basophilic Focus
Clear Cell Focus
Cyst
Eosinophilic Focus | + | + | + | + | + | + | + | + | + | + | + | 60 | 2 2.0
28
19
3 3.0
9 |

* .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 5 | 4 | 7 | |
| | 4 | 4 | 4 | 0 | 4 | 4 | 5 | 4 | 6 | 4 | |
| | 1 | 1 | 1 | 0 | 1 | 1 | 8 | 6 | 2 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.05% | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Granuloma | | | | | | | | | | | 1 1.0 |
| Hematopoietic Cell Proliferation | | | | | | | | 3 | | | 1 3.0 |
| Hepatodiaphragmatic Nodule | | | | X | | | | | | | 5 |
| Inflammation, Subacute | 1 | | | | | | | | | | 5 1.2 |
| Mixed Cell Focus | | | X | | X | X | | | | | 19 |
| Necrosis, Focal | | | | | | | | | | | 2 1.0 |
| Thrombosis | | | | | | | | | | | 1 3.0 |
| Bile Duct, Hyperplasia | | | | | | | | | | | 11 1.6 |
| Bile Duct, Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 55 1.3 |
| Centrilobular, Atrophy | | | | | | | | 2 | | | 9 2.2 |
| Hepatocyte, Cytologic Alterations | 2 | 2 | | | | | | | 3 | | 15 1.9 |
| Hepatocyte, Pigmentation | 1 | 1 | 1 | | 1 | 1 | 1 | 3 | 2 | 1 | 43 1.1 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | 6 3.0 |
| Kupffer Cell, Pigmentation | | | | | | | | 2 | | | 11 2.4 |
| Mesentery | | | | + | | | + | + | + | + | 20 |
| Fat, Necrosis | | | | 4 | | | 2 | 2 | | 2 | 18 2.5 |
| Oral Mucosa | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 60 |
| Atrophy | | 2 | | | | 1 | | | | 1 | 19 1.9 |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | | | | | 2 3.5 |
| Acinar Cell, Hyperplasia, Focal | | | | | | | | | | | 1 1.0 |
| Salivary Glands | + | | + | | | | + | + | + | | 55 |
| Atrophy | | | 1 | | | | | | | | 8 1.5 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 60 |
| Ulcer | | | | | | | | | | | 1 4.0 |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 5 | 4 | 7 | | | | |
| | 4 | 4 | 4 | 0 | 4 | 4 | 5 | 4 | 6 | 4 | | | | |
| | 1 | 1 | 1 | 0 | 1 | 1 | 8 | 6 | 2 | 1 | | | | |
| <hr/> | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 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 |
| 0.05% | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | |
| | | | | | | | | | | | | | | * TOTALS |
| Mucosa, Hyperplasia | 1 | | | | | | | | | | | | | 17 1.3 |
| Stomach, Glandular | + + + + + + + + + + | | | | | | | | | | | | | 60 |
| Edema | | | | | | | | | | | | | | 2 2.0 |
| Erosion | | | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | | | | | | | | 2 2.5 |
| <hr/> | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | |
| Blood Vessel | + + + + + + + + + + | | | | | | | | | | | | | 60 |
| Heart | + + + + + + + + + + | | | | | | | | | | | | | 60 |
| Cardiomyopathy | 1 | | | | | | | | | | | | | 18 1.5 |
| <hr/> | | | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | |
| Adrenal Cortex | + + + + + + + + + + | | | | | | | | | | | | | 60 |
| Accessory Adrenal Cortical Nodule | 2 1 | | | | | | | | | | | | | 17 1.3 |
| Angiectasis | 3 | | | | | | | | | | | | | 2 3.0 |
| Degeneration, Fatty | 2 2 | | | | | | | | | | | | | 10 1.7 |
| Hematopoietic Cell Proliferation | 3 | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | 2 2.0 |
| Hypertrophy, Focal | 2 3 | | | | | | | | | | | | | 2 2.5 |
| Necrosis | | | | | | | | | | | | | | 1 2.0 |
| Adrenal Medulla | + + + + + + + + + + | | | | | | | | | | | | | 60 |
| Hyperplasia | | | | | | | | | | | | | | 1 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 5 | 4 | 7 | | |
| | 4 | 4 | 4 | 0 | 4 | 4 | 5 | 4 | 6 | 4 | | |
| | 1 | 1 | 1 | 0 | 1 | 1 | 8 | 6 | 2 | 1 | | |
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | |
| 0.05% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | * TOTALS | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | | 60 |
| Parathyroid Gland
Hyperplasia | + | + | + | M | + | + | + | + | + | + | | 57 |
| | | | | | | | | | | | 1 2.0 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | | 60 |
| Pars Distalis, Angiectasis | | | | | | | | | | | 6 3.0 | |
| Pars Distalis, Cyst | 3 | | | | 3 | 3 | X | | 3 | | | 28 3.0 |
| Pars Distalis, Hyperplasia, Focal | 2 | | | 2 | | | 1 | | | | | 6 2.0 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | 1 3.0 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | | 60 |
| Ultimobranchial Cyst | | | | | | | | | | | 7 3.0 | |
| C-cell, Hyperplasia | | | | | | | | | | | 7 1.6 | |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|--------------|---------------|
| Clitoral Gland | M | + | + | + | + | + | + | + | + | + | | 59 |
| Cyst | | | | | | | | | | | 4 2.8 | |
| Hyperplasia | | | | | | | | | | | 1 2.0 | |
| Inflammation, Suppurative | | | | | | | | | | | 1 2.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | 1 2.0 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | | 60 |
| Cyst | 3 | | | | | | X | | 3 | | | 17 3.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 5 | 4 | 7 |
| | 4 | 4 | 4 | 0 | 4 | 4 | 5 | 4 | 6 | 4 |
| | 1 | 1 | 1 | 0 | 1 | 1 | 8 | 6 | 2 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.05% | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| * TOTALS | | | | | | | | | | |

| | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|--------------|
| Uterus | + | + | + | + | + | + | + | + | + | + | 60 |
| Hydrometra | | | 1 | | | | | | | | 9 2.3 |
| Hyperplasia, Cystic | | | | | | | | | | | 1 2.0 |
| Vagina | | | | | | | | | | | 0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 60 |
| Hyperplasia | | | | | | | | | | | 1 3.0 |
| Myelofibrosis | | | | | | | | | | | 2 2.0 |
| Lymph Node | | | | + | + | | | | + | | 13 |
| Deep Cervical, Pigmentation | | | | | | | | | 4 | | 1 4.0 |
| Mediastinal, Hemorrhage | | | | 1 | 2 | | | | | | 4 1.5 |
| Mediastinal, Hyperplasia, Lymphoid | | | | 2 | | | | | 2 | | 2 2.0 |
| Mediastinal, Pigmentation | | | | 3 | 3 | | | | 3 | | 9 3.0 |
| Pancreatic, Pigmentation | | | | | | | | | | | 2 3.0 |
| Renal, Hemorrhage | | | | | | | | | | | 1 2.0 |
| Renal, Pigmentation | | | | | | | | | 2 | | 1 2.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 60 |
| Ectasia | | | | | | | | | 2 | | 3 2.7 |
| Hemorrhage | 1 | | | | 2 | | | | 2 | | 11 1.5 |
| Hyperplasia, Lymphoid | 2 | | 2 | 2 | | | | | | | 10 2.1 |
| Pigmentation | 2 | 2 | | 2 | 2 | | 2 | 4 | 2 | | 28 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:
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TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 5 | 4 | 7 | | | | | | | | | |
| | 4 | 4 | 4 | 0 | 4 | 4 | 5 | 4 | 6 | 4 | | | | | | | | | |
| | 1 | 1 | 1 | 0 | 1 | 1 | 8 | 6 | 2 | 1 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 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 |
| 0.05% | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | * TOTALS |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | 3 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 60 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | 5 2.2 |
| | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | 59 |
| Hematopoietic Cell Proliferation | 2 | | 2 | 2 | 2 | | | | | 4 | 2 | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Pigmentation | 2 | 2 | 3 | | 2 | | 2 | 2 | | 2 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 23 2.0 |
| | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | 37 2.1 |
| | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 58 |
| | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | 2 | 3 | | | 1 | | 2 | | 2 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | 60 |
| | | | | | | | | | | | | | | | | | | | 42 2.2 |
| | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | 60 |
| | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperostosis | | | | | | | | | | | | | | | | | | | 60 |
| | | | | | | | | | | | | | | | | | | | 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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 BLANK .. Not examined microscopically
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TDMS No. 05128 - 06
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--------------|
| | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 5 | 4 | 7 | | | | | |
| | 4 | 4 | 4 | 0 | 4 | 4 | 5 | 4 | 6 | 4 | | | | | |
| | 1 | 1 | 1 | 0 | 1 | 1 | 8 | 6 | 2 | 1 | | | | | |
| <hr/> | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 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 | |
| 0.05% | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | | |
| | | | | | | | | | | | | | | * TOTALS | |
| Cranium, Osteopetrosis | | | | | | | | | | | | | | 2 | 7 2.6 |
| Femur, Osteopetrosis | | | | | | | | | | | | | | 3 | 7 2.4 |
| <hr/> | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | + | 2 |
| <hr/> | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 | |
| Developmental Malformation | | | | | | | | X | | X | | | | 11 | |
| <hr/> | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | 2 | |
| Degeneration | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | 1 3.0 |
| <hr/> | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | 2 | |
| <hr/> | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 | |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | | 1 | | | | 2 | 1 | 1 | | | 34 1.1 | |
| Inflammation, Subacute | | | | | | 1 | 1 | | | | | | | 6 1.2 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | 1 | | | | | 2 2.5 | |
| <hr/> | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 | |
| Exudate | 3 | | | | | | | | | | | | | 5 3.0 | |
| Foreign Body | | | | | | | | | | | | | | 1 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | 2 1.5 | |

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 + .. Tissue examined microscopically
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 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------------|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| | 7 | 7 | 7 | 6 | 7 | 7 | 3 | 5 | 4 | 7 | | | | | |
| | 4 | 4 | 4 | 0 | 4 | 4 | 5 | 4 | 6 | 4 | | | | | |
| | 1 | 1 | 1 | 0 | 1 | 1 | 8 | 6 | 2 | 1 | | | | | |
| | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 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 | |
| 0.05% | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | | |
| | | | | | | | | | | | | | | * TOTALS | |
| Mucosa, Metaplasia, Squamous | 2 | | | | | | | | | | | | | 2 2.5 | |
| Trachea | + + + + + + + + + + | | | | | | | | | | | | | 60 | |
| | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | 2 | |
| Eye | | | | | | | | | | | | | | 2 | |
| Cataract | | | | | | | | | | | | | | 2 3.5 | |
| Retina, Degeneration | | | | | | | | | | | | | | 2 3.0 | |
| Harderian Gland | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | |
| Kidney | + + + + + + + + + + | | | | | | | | | | | | | 60 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | 1 1.0 | |
| Mineralization | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | | | | | 58 1.8 |
| Nephropathy | 1 | 2 | 1 | | 1 | 2 | 1 | 1 | | 3 | | | | | 53 1.6 |
| Renal Tubule, Cytoplasmic Alteration | | | | 3 | | | | | | | | | | | 2 2.5 |
| Renal Tubule, Pigmentation | 1 | 2 | 2 | | 2 | 2 | 2 | 3 | 1 | 1 | | | | | 57 1.8 |
| Transitional Epithelium, Hyperplasia | | | | | 1 | 1 | | | | | | | | 6 1.3 | |
| Urinary Bladder | + + + + + + + + + + | | | | | | | | | | | | | 60 | |

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 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 7 3 7 3 7 7 7 5 3 6 3 7 7 6 7 5 7 7 3 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
ANIMAL ID | 4 4 0 5 4 5 4 4 4 9 5 5 5 4 4 6 4 3 4 4 5 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 0 1 8 0 8 0 0 0 7 8 8 8 0 0 0 0 2 0 0 8 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.17% | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 8 8 8 8 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------|-----------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum
Edema | + + + + + + + + + + + + + + + M + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon
Parasite Metazoan | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum
Parasite Metazoan | + + + + + + + + + + + + + + + + + + + + + X + + + X | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 2 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | X X X X X X X X X X X X X X X X X X X X X X X X X | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | 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 | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
 Page 164
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
|--------------------------------------------|---------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 7 7 3 7 3 7 7 7 5 3 6 3 7 7 6 7 5 7 7 3 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.17% ANIMAL ID | 4 4 0 5 4 5 4 4 4 9 5 5 5 4 4 6 4 3 4 4 5 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| | 0 0 1 8 0 8 0 0 0 7 8 8 8 0 0 0 0 2 0 0 8 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.17% 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.17% ANIMAL ID | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.17% ANIMAL ID | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Subacute | 1 | | | 1 | | 1 | | | | | | | | | 1 | | | | | 1 | | 1 | | | | |
| Mixed Cell Focus | X | | | | | | | X | X | | | | | X | X | X | | | | | | X | | X | X | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | |
| Thrombosis | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 1 | | 2 | 1 | 2 | 1 | 2 | | | | | | 1 | | 2 | 1 | | | 1 | | 1 | 1 | 1 | 2 | | |
| Bile Duct, Pigmentation | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | | 2 | | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | |
| Centrilobular, Atrophy | | | 2 | | | | | | | | 3 | | | | | | | 3 | | | | | | | | |
| Hepatocyte, Cytologic Alterations | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | | 1 | | 1 | | 2 | 2 | 2 | | 2 | | 2 | 2 | 2 | 2 | 3 | |
| Hepatocyte, Pigmentation | 2 | 2 | | 1 | 2 | 1 | | 3 | 2 | | 1 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | 2 | | 2 | | 2 | | | | | | 3 | | 1 | | | | 1 | | | | | 1 | 3 | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
 Page 165

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 7 | 7 | 5 | 3 | 6 | 3 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 3 | 7 | 7 | 7 | 7 |
| | 4 | 4 | 0 | 5 | 4 | 5 | 4 | 4 | 4 | 9 | 5 | 5 | 5 | 4 | 4 | 6 | 4 | 3 | 4 | 4 | 5 | 4 | 4 | 4 | 4 |
| | 0 | 0 | 1 | 8 | 0 | 8 | 0 | 0 | 0 | 7 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 0.17% | 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 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | 2 | 1 | | | | X | | | | 1 | | 1 | | | | 3 | | | X | | | | | 1 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Fatty | 1 | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 7 | 7 | 5 | 3 | 6 | 3 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 3 | 7 | 7 | 7 | 7 |
| | 4 | 4 | 0 | 5 | 4 | 5 | 4 | 4 | 4 | 9 | 5 | 5 | 5 | 4 | 4 | 6 | 4 | 3 | 4 | 4 | 5 | 4 | 4 | 4 | 4 |
| | 0 | 0 | 1 | 8 | 0 | 8 | 0 | 0 | 0 | 7 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 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 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | | 2 | | | | | | | | 2 | | | | | 3 | | | 2 | | | | | | 3 | 3 |
| Pars Distalis, Cyst | 3 | 3 | 3 | X | 3 | X | 3 | 3 | | | X | | | X | 3 | | | 3 | 3 | | 3 | X | | 3 | 3 |
| Pars Distalis, Hyperplasia, Focal | | 2 | | | 3 | | | | | | | | 2 | | | | | | | | | | | | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | 3 | | | | | | | | | | | | | 3 | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ultimobranchial Cyst | | | | | | | | | | | 3 | | | | | | | | 3 | | | | | | |
| C-cell, Hyperplasia | 2 | | | | | | | | | | 3 | | | | 1 | | | | | 1 | | 2 | | 1 | |
| Follicle, Cyst | | | | | | | 3 | | | | | | | | | | | | | | | | 3 | | |

females (cont...)

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | 3 | | | X | | X | | | | | | | 3 | | | | 3 | | | | | | 3 | 3 | 3 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hydrometra | | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 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
 Page 167

TDMS No. 05128 - 06
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
D & C YELLOW NO. 11
CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
Time Report Reqsted: 11:47:58
First Dose M/F: 04/26/90 / 04/26/90
Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 7 | 7 | 5 | 3 | 6 | 3 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | |
| | 4 | 4 | 0 | 5 | 4 | 5 | 4 | 4 | 4 | 9 | 5 | 5 | 5 | 4 | 4 | 6 | 4 | 3 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | |
| | 0 | 0 | 1 | 8 | 0 | 8 | 0 | 0 | 0 | 7 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 0.17% | 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 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females
(cont...)

Vagina M M

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | + | + | | | | | | | + | + | + | + | | | | | | + | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | 1 | 3 | 3 | 3 | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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
Page 168

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------|
| | 7 7 7 3 7 3 7 7 7 5 3 6 3 7 7 6 7 5 7 7 3 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.17% ANIMAL ID | 4 4 0 5 4 5 4 4 4 9 5 5 5 4 4 6 4 3 4 4 5 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| | 0 0 1 8 0 8 0 0 0 7 8 8 8 0 0 0 0 2 0 0 8 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis
Hematopoietic Cell Proliferation
Necrosis
Pigmentation
Lymphoid Follicle, Atrophy | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | 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 | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
| | 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | 2 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone
Cranium, Osteopetrosis
Femur, Osteopetrosis | 2 3 | | | | | | | | | | | | | | | | | | | | | | | | | 3 2 2 2 |
| | 3 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | 3 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 2 |
| | 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain
Developmental Malformation | + | | | | | | | | | | | | | | | | | | | | | | | | | + |
| | + | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 7 | 7 | 5 | 3 | 6 | 3 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 3 | 7 | 7 | 7 | 7 |
| | 4 | 4 | 0 | 5 | 4 | 5 | 4 | 4 | 4 | 9 | 5 | 5 | 5 | 4 | 4 | 6 | 4 | 3 | 4 | 4 | 5 | 4 | 4 | 4 | 4 |
| | 0 | 0 | 1 | 8 | 0 | 8 | 0 | 0 | 0 | 7 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females (cont...)

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Infiltration Cellular, Histiocyte Inflammation, Subacute Alveolar Epithelium, Hyperplasia | | 1 | 1 | | | 1 | | 1 | | | 1 | | 1 | | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exudate | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Foreign Body | | | X | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | 2 | 2 | | 2 | 3 | 2 | 2 | 2 | 3 | 1 | 2 | | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked
 Page 170

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 3 | 7 | 3 | 7 | 7 | 7 | 5 | 3 | 6 | 3 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 3 | 7 | 7 | 7 | 7 |
| | 4 | 4 | 0 | 5 | 4 | 5 | 4 | 4 | 4 | 9 | 5 | 5 | 5 | 4 | 4 | 6 | 4 | 3 | 4 | 4 | 5 | 4 | 4 | 4 | 4 |
| | 0 | 0 | 1 | 8 | 0 | 8 | 0 | 0 | 0 | 7 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 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 |
| Nephropathy | 1 | 2 | | 1 | 1 | 1 | 2 | 2 | 1 | 2 | | 3 | | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 1 | 2 |
| Renal Tubule, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Renal Tubule, Pigmentation | 3 | 3 | 4 | 2 | 3 | 2 | 3 | 3 | 2 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| Transitional Epithelium, Hyperplasia | | | 3 | | | | | | 1 | | | | | | | 2 | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

females
(cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 171

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 7 7 3 7 7 3 7 7 7 7 7 7 7 7 6 7 6 7 7 7 7 3 5 7 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.17% | 4 4 5 4 4 5 4 4 4 4 4 1 2 4 4 4 7 4 3 4 4 4 5 8 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 1 8 1 1 8 1 1 1 1 1 9 2 1 1 1 1 8 1 1 1 1 8 8 1 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 4 4 4 4 4 4 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 8 8 8 9 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | 3 | | | 2 | 2 | | | | | 3 | | | 4 | | | 2 | | | | | | | | |
| Pars Distalis, Cyst | 3 | | | | 3 | X | 3 | 3 | | | | 3 | | | 3 | | | | | 3 | X | 3 | | |
| Pars Distalis, Hyperplasia, Focal | | | | 2 | | | | 2 | 2 | | | | 3 | 3 | | | | | | | | 2 | | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | |

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

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |
| Cyst | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | X | 3 | | X | | | | 3 | | | | 3 | | 3 | | | | | | X | | 3 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hyperplasia, Cystic | | | | 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
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TDMS No. 05128 - 06
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 3 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 3 | 5 | 7 | |
| 4 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 1 | 2 | 4 | 4 | 4 | 7 | 4 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 4 | |
| 1 | 1 | 8 | 1 | 1 | 8 | 1 | 1 | 1 | 1 | 9 | 2 | 1 | 1 | 1 | 1 | 1 | 8 | 1 | 1 | 1 | 1 | 8 | 8 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.17% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

females
(cont...)

Vagina

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------------------------------------------|--|---|--|--|---|---|--|--|---|---|--|---|--|--|--|---|---|---|---|--|---|---|---|---|---|---|---|---|--|---|
| Bone Marrow | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | 2 | 4 | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | + | | | | | | | + | | | | + | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 2 | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | 4 | | | | | | | 4 | | | | | | | 3 | | | | |
| Lymph Node, Mandibular | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | 2 | | | | | | | 3 | | | | | | | 3 | | | | 2 |
| Hemorrhage | | | 3 | | | 2 | 1 | | | 2 | 1 | | | | | | | | | | | | | 2 | 1 | | | | | | |
| Hyperplasia, Lymphoid | | | 2 | | | 2 | 2 | | | | | | | | | | | 3 | 2 | 4 | | | | | | 2 | | | | | |
| Pigmentation | | | 2 | | | 2 | 2 | | | 2 | | | | | | | 2 | 2 | 2 | 2 | | | 2 | 2 | 2 | | | 2 | 2 | | |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Spleen | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------|---|--|
| | 0741 | 0744 | 0745 | 0748 | 0749 | 0753 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | 0757 | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) | | |
| 0.17% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | | | |
| | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Fibrosis | | | | | | | | | | | 3 | 3 | 4 | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | 2 | | 2 | | | 2 | 2 | 2 | 3 | 2 | 2 | 2 | | | 2 | 2 | 3 | | 2 | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | 3 | 2 | 3 | 2 | 2 | 2 | | 2 | | | | | 3 | | 2 | | 2 | 2 | | | | | 2 | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | 1 | | | 4 | 1 | | | | 3 | 3 | 2 | 2 | | 2 | 2 | 2 | 2 | 1 | | 2 | 2 | 3 | | 2 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cranium, Osteopetrosis | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Developmental Malformation | | X | | | | | | | | X | | | X | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 177

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 3 | 7 | 7 |
| | 4 | 5 | 4 | 5 | 1 | 4 | 2 | 5 | 4 | 4 |
| | 1 | 8 | 1 | 6 | 0 | 1 | 2 | 8 | 1 | 1 |
| | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | |
|----------------------------------------------|---|---|---|---|---|---|---|---|---|---|---------------------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 59 |
| Intestine Large, Cecum
Edema | + | + | + | + | + | + | + | + | + | + | 59
2 2.5 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | 59
4 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | 59
6 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 60 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 59 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 60 |
| Liver | + | + | + | + | + | + | + | + | + | + | 60 |
| Angiectasis | | | | | | | | | | | 3 2.3 |
| Basophilic Focus | | | | | | | | | X | | 13 |
| Clear Cell Focus | X | X | X | | X | X | | X | | | 33 |
| Cyst | | | | | | | | | | | 4 3.0 |
| Eosinophilic Focus | | | | | | | | | X | | 15 |
| Granuloma | | | | | | | | | | | 2 1.0 |
| Hematopoietic Cell Proliferation | | | | 3 | 2 | | | | | | 2 2.5 |
| Hepatodiaphragmatic Nodule | | X | | | | | | | | | 7 |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------------------|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 3 | 7 | 7 | | | | | |
| | 4 | 5 | 4 | 5 | 1 | 4 | 2 | 5 | 4 | 4 | | | | | |
| | 1 | 8 | 1 | 6 | 0 | 1 | 2 | 8 | 1 | 1 | | | | | |
| | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 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 |
| 0.17% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | | |
| | | | | | | | | | | | | | | | * TOTALS |
| Inflammation, Subacute | 1 | | | | | | | | | | | | | | 10 1.1 |
| Mixed Cell Focus | X | | | | | | | | | | | | | | 20 |
| Necrosis, Focal | 1 | | | | | | | | | | | | | | 5 1.0 |
| Thrombosis | 1 | | | | | | | | | | | | | | 2 2.5 |
| Bile Duct, Hyperplasia | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | 33 1.4 |
| Bile Duct, Pigmentation | 2 1 2 2 1 2 2 1 2 2 | | | | | | | | | | | | | | 56 1.9 |
| Centrilobular, Atrophy | 2 1 2 3 2 2 2 2 2 2 | | | | | | | | | | | | | | 5 2.4 |
| Hepatocyte, Cytologic Alterations | 2 1 3 2 2 2 2 1 1 3 | | | | | | | | | | | | | | 41 2.0 |
| Hepatocyte, Pigmentation | 2 1 3 2 2 2 2 1 1 3 | | | | | | | | | | | | | | 54 1.9 |
| Hepatocyte, Vacuolization Cytoplasmic | 4 | | | | | | | | | | | | | | 2 4.0 |
| Kupffer Cell, Pigmentation | 1 2 2 | | | | | | | | | | | | | | 16 1.8 |
| | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | | | | | | | | | 8 |
| Fat, Necrosis | 3 2 | | | | | | | | | | | | | | 8 2.5 |
| | | | | | | | | | | | | | | | |
| Pancreas | + + + + + + + + + + | | | | | | | | | | | | | | 60 |
| Atrophy | 2 | | | | | | | | | | | | | | 20 2.0 |
| Necrosis | 1 | | | | | | | | | | | | | | 1 4.0 |
| | | | | | | | | | | | | | | | |
| Salivary Glands | + + + + + + + + + + | | | | | | | | | | | | | | 60 |
| Atrophy | 1 | | | | | | | | | | | | | | 8 1.6 |
| | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + + + + + + + + + + | | | | | | | | | | | | | | 60 |
| Edema | 2 1 2 2 1 2 | | | | | | | | | | | | | | 2 2.0 |
| Mucosa, Hyperplasia | 2 1 2 2 1 2 | | | | | | | | | | | | | | 31 1.5 |
| | | | | | | | | | | | | | | | |
| Stomach, Glandular | + + + + + + + + + + | | | | | | | | | | | | | | 60 |
| Edema | + + + + + + + + + + | | | | | | | | | | | | | | 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
 Page 181

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 3 | 7 | 7 |
| | 4 | 5 | 4 | 5 | 1 | 4 | 2 | 5 | 4 | 4 |
| | 1 | 8 | 1 | 6 | 0 | 1 | 2 | 8 | 1 | 1 |
| | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Blood Vessel Hypertrophy | + | + | + | + | + | + | + | + | + | + | 60 | 1 2.0 |
| Heart | + | + | + | + | + | + | + | + | + | + | 60 | |
| Cardiomyopathy | 1 | | 1 | 1 | | | 3 | | | | | 18 1.7 |
| Thrombosis | | | | 1 | | | | | | | | 1 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 60 | |
| Accessory Adrenal Cortical Nodule | | | | | | 2 | | | | | | 13 1.7 |
| Angiectasis | | | | | | | | | | | | 2 3.0 |
| Degeneration, Fatty | | | 1 | | 4 | | 3 | | | | | 9 2.1 |
| Hyperplasia, Focal | | | | | | | | | | | | 2 1.5 |
| Hyperplasia, Diffuse | | | | | 4 | | | | | | | 1 4.0 |
| Hypertrophy, Focal | | | | | | | | | | | | 3 2.3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 59 | |
| Hyperplasia | | | | | | | 3 | | 2 | | | 4 1.8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 59 | |
| Hyperplasia | | | | | | | | | | | | 1 3.0 |
| Parathyroid Gland | + | + | + | + | M | + | + | + | + | + | 57 | |

* .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 3 | 7 | 7 | |
| | 4 | 5 | 4 | 5 | 1 | 4 | 2 | 5 | 4 | 4 | |
| | 1 | 8 | 1 | 6 | 0 | 1 | 2 | 8 | 1 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.17% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 60 |
| Pars Distalis, Angiectasis | | | | 2 | | | 4 | | | 3 | 17 2.6 |
| Pars Distalis, Cyst | 3 | X | | 3 | | 3 | 3 | X | | | 34 3.0 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | 2 | 10 2.3 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | 1 2.0 |
| Pars Intermedia, Cyst | | | | | | | | | | | 2 3.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 60 |
| Ultimobranchial Cyst | | | | | | | | | | | 5 3.0 |
| C-cell, Hyperplasia | | | | | | | 2 | | | | 10 1.8 |
| Follicle, Cyst | | | | | | | 3 | | | | 4 3.0 |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | 59 |
| Cyst | | | | | | | | 3 | | | 3 2.7 |
| Hyperplasia | | | | | | | | | | | 2 2.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | X | | | | | | | | | 17 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | 60 |
| Hydrometra | | | | 2 | | | | | 2 | | 4 2.3 |
| Hyperplasia, Cystic | 2 | | | | | | | | | | 4 2.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
| | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 3 | 7 | 7 |
| | 4 | 5 | 4 | 5 | 1 | 4 | 2 | 5 | 4 | 4 |
| | 1 | 8 | 1 | 6 | 0 | 1 | 2 | 8 | 1 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.17% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | |

Vagina 0

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|----|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 60 | |
| Hyperplasia | | | | 3 | | | | | | | | 3 3.0 |
| Myelofibrosis | | | | | 3 | | | | | | | 3 2.7 |
| Lymph Node | + | | | + | | | | | | | 13 | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | 5 2.6 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Pigmentation | | | | | | | | | | | | 8 2.9 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | 1 3.0 |
| Pancreatic, Pigmentation | 3 | | | 3 | | | | | | | | 6 3.5 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 60 | |
| Ectasia | | | | | | | | | | | | 7 2.3 |
| Hemorrhage | | | | 2 | 2 | | | | | | | 17 1.5 |
| Hyperplasia, Lymphoid | | | | | | | | | | 2 | | 14 2.5 |
| Pigmentation | | | | | | | 2 | | | 2 | | 21 2.0 |
| Lymph Node, Mediastinal | | | | | | | | | | | 2 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 60 | |
| Hemorrhage | | | | | | | | | | | | 1 1.0 |
| Hyperplasia, Lymphoid | | | | | 2 | | | | | | | 5 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | 60 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 3 | 7 | 7 | | | |
| | 4 | 5 | 4 | 5 | 1 | 4 | 2 | 5 | 4 | 4 | | | |
| | 1 | 8 | 1 | 6 | 0 | 1 | 2 | 8 | 1 | 1 | | | |
| <hr/> | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 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 | |
| 0.17% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |
| | | | | | | | | | | | | * TOTALS | |
| Fibrosis | | | | | | | | | | | | 5 3.0 | |
| Hematopoietic Cell Proliferation | 1 | | 2 | 4 | 3 | | 4 | | | | | | 30 2.2 |
| Necrosis | | | | | | | | | | | | 1 4.0 | |
| Pigmentation | | 2 | 2 | | 2 | 2 | 3 | | 2 | | | | 32 2.3 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | 2 3.0 | |
| Thymus | + | + | + | + | M | + | + | + | + | + | | | 59 |
| <hr/> | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | | 60 |
| Hyperplasia | 3 | | 4 | | 2 | | 2 | | 2 | | | | 37 2.2 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | | 60 |
| <hr/> | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | | 60 |
| Cranium, Osteopetrosis | | | | | | | | | | | | 3 2.0 | |
| Femur, Osteopetrosis | | | | | | | | | | | | 1 2.0 | |
| <hr/> | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | | 60 |
| Developmental Malformation | | | | | | | | | | | | 8 | |

* .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

FISCHER 344 RATS FEMALE

0.17%

ANIMAL ID

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

* TOTALS

RESPIRATORY SYSTEM

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | 60 | |
| Hemorrhage | | | | | | | | | | | | 1 2.0 |
| Infiltration Cellular, Histiocyte | 1 | | | | 1 | 1 | | | 1 | 1 | | 37 1.1 |
| Inflammation, Subacute | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | 3 2.7 |
| Nose | + | + | + | + | + | + | + | + | + | + | 60 | |
| Exudate | | | | | | 3 | | | | | | 3 3.0 |
| Foreign Body | | | | | | | | | | | | 2 |
| Mucosa, Hyperplasia | | | | | | 1 | | | | | | 2 1.0 |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | | 2 1.5 |
| Trachea | + | + | + | + | + | + | + | + | + | + | 60 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|---|-------|
| Eye | | | | | | | | | | | 1 | |
| Cataract | | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | | 1 3.0 |
| Retina, Degeneration | | | | | | | | | | | | 1 4.0 |

URINARY SYSTEM

| | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|----|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | 60 | |
| Mineralization | 2 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | | | | 54 1.9 |

* .. 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

Page 186

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 3 | 7 | 7 | |
| | 4 | 5 | 4 | 5 | 1 | 4 | 2 | 5 | 4 | 4 | |
| | 1 | 8 | 1 | 6 | 0 | 1 | 2 | 8 | 1 | 1 | |
| | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.17% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | |
| Nephropathy | 3 | 1 | 2 | | 3 | 2 | 2 | | 1 | 2 | 53 1.7 |
| Renal Tubule, Cytoplasmic Alteration | | | | | | | | | | | 1 3.0 |
| Renal Tubule, Pigmentation | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 60 2.7 |
| Transitional Epithelium, Hyperplasia | | | | | 2 | | | | | 1 | 10 1.5 |
| | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | 60 |

* .. 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. 05128 - 06
 Test Type: CHRONIC
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 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 6 6 3 6 7 7 3 7 7 7 7 7 3 7 7 4 7 7 7 3 4 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.5% ANIMAL ID | 5 4 5 9 2 4 5 2 4 4 4 3 3 5 4 2 6 4 4 2 5 4 2 5 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 8 8 5 3 0 8 3 0 0 0 3 4 8 0 8 9 0 0 8 8 1 0 8 0 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.5% 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 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------------|-------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + + + + + + + + M + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum
Ulcer | + + + + + + + + + + + + + + + + + + + + M + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon
Parasite Metazoan | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum
Edema
Parasite Metazoan | + + + + + + + + + + + + + + + + I + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | X X X X X X X X X X X X X X X X X X X X X X X X X X | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic 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 | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 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
 Page 188

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.5% | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 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 |
| Hepatodiaphragmatic Nodule | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Subacute | | | | 1 | | | | 1 | | | | | | 1 | | | | | | 1 | | | | | | |
| Mixed Cell Focus | | | | | | X | | X | | | | | | X | | X | | | | | | | | X | | |
| Necrosis, Focal | | | | | | | | | | | | | | | 1 | | | | | | | | 2 | | | |
| Thrombosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | 1 | 3 | | 1 | 1 | 2 | | 1 | 1 | | 2 | 1 | 2 | | 2 | | 2 | 2 | 2 | 4 | 1 | | |
| Bile Duct, Pigmentation | | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | |
| Centrilobular, Atrophy | | | | | | | | | | | | | | | | 3 | | | | | | 3 | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Cytologic Alterations | | | | 2 | 3 | | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | | 2 | 2 | 3 | 3 | | 4 | 2 | | |
| Hepatocyte, Pigmentation | | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 1 | 1 | 2 |
| Hepatocyte, Vacuolization Cytoplasmic | | 3 | 3 | | | | | | | | | | | | | | | | | | | 3 | | | | |
| Kupffer Cell, Pigmentation | | 2 | | 1 | 3 | 3 | | 1 | 3 | | 2 | 1 | 2 | | 1 | | | 2 | 1 | 1 | 1 | 3 | 3 | | | |
| Mesentery | | | | | | + | | + | + | + | + | | | | | | + | + | | | | | | + | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | 3 | | 3 | 2 | 3 | 3 | | | | | 2 | | 2 | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | 1 | | 2 | | 1 | | 1 | | 3 | | 1 | | | | | | 3 | | |
| Acinar Cell, Cytoplasmic Alteration | | 3 | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia, Focal | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | 2 | | | | 2 | | | | 1 | | 2 | 1 | 2 | | | | 1 | | 2 | | | | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | 2 | | | | | | | | | | | | | | | | | | | | 1 | | | | |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) | |
|--------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| 6 | 6 | 3 | 6 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 4 | 7 | 7 | 7 | 3 | 4 | 7 | 6 | 7 | | |
| 5 | 4 | 5 | 9 | 2 | 4 | 5 | 2 | 4 | 4 | 4 | 3 | 3 | 5 | 4 | 2 | 6 | 4 | 4 | 2 | 5 | 4 | 2 | 5 | 4 | | |
| 6 | 8 | 8 | 5 | 3 | 0 | 8 | 3 | 0 | 0 | 0 | 3 | 4 | 8 | 0 | 8 | 9 | 0 | 0 | 8 | 8 | 1 | 0 | 8 | 0 | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0.5% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | | | |
| | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Ulcer Mucosa, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | 1 | | 2 | 1 | | 2 | 1 | | | 2 | 1 | 3 | 1 | | 2 | | | 3 | | | |
| Stomach, Glandular Edema Erosion Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | + | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | 3 | | | | 2 | | | | 1 | | 2 | | | 3 | 2 | 1 | | 2 | | | | | | |
| Degeneration, Fatty | | | | | | | | | | 1 | | | | | | | | | | | | 1 | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
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D & C YELLOW NO. 11

CAS Number: 8003-22-3

Date Report Requested: 06/07/2007

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Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|----------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 6 | 3 | 6 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 4 | 7 | 7 | 7 | 3 | 4 | 7 | 6 | 7 | |
| ----- | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.5%

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 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | 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 | |
| ----- | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Angiectasis | | | | | | | 3 | | | | | | | | | 2 | 2 | | | 3 | | | | | 4 | |
| Pars Distalis, Cyst | | 3 | | 3 | | | X | | | 3 | | | | 3 | | 3 | 3 | 3 | 3 | | | 3 | | 3 | | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | 3 | | | | | | | | 1 | | | | 2 | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| C-cell, Hyperplasia | | | | 1 | | 2 | | 1 | | | | | 1 | | | | | | | 2 | | 1 | | | | |
| Follicle, Cyst | | | | | | | | | | 3 | | 3 | | | | | | | | | | | | | | |

females (cont...)

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
Cyst
Hyperplasia
Inflammation, Chronic

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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 0.5% | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | | |
| | | 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 |
| Ovary | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | | | | | | | | | 3 | | | | | 3 | | | | | 3 | 3 | X | 3 | 3 | |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hydrometra | | | | | | | 2 | | | | 2 | | | | 2 | 2 | | | | | 3 | | 3 | | | |
| Vagina | | | | | | | | | | | | | M | | | | | | | | | | | M | | |

females
(cont...)

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | 3 | | | | | | | | | | | | | | 3 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Pigmentation | | | | | | + | | + | + | + | | | | | | | | | | | | + | | + |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Mediastinal, Pigmentation | | | | | | 4 | | | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Granuloma | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 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. 05128 - 06
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 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------|
| | 6 6 3 6 7 7 3 7 7 7 7 7 3 7 7 4 7 7 7 3 4 7 6 7
5 4 5 9 2 4 5 2 4 4 4 3 3 5 4 2 6 4 4 2 5 4 2 5 4
6 8 8 5 3 0 8 3 0 0 0 3 4 8 0 8 9 0 0 8 8 1 0 8 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.5% | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 4 5 6 7 8 9 0 1 2 3 3 4 5 6 7 8 9 0 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---------------------------------------------------|--|-----|--|-----|--|-----|--|-----|--|---|--|-----|--|-----|-------|---|--|-------|--|---|---|---|--|---|--|--|
| Hemorrhage | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | 3 | | | 3 2 3 | | | 2 2 3 | | | 2 | | | 3 | | |
| Pigmentation | 2 | | 3 | | 2 | | | | 3 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 3 | | |
| Lymph Node, Mediastinal | | | | | | | | | | | | | + | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | 3 2 | | 3 3 | | 2 2 | | 1 | | 2 | | 2 2 | | 1 | | 2 | | 1 | | 3 | | 3 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | | 2 2 | | 2 | | 2 2 | | 2 | | 3 | | 2 2 | | 4 | | 2 | | 2 2 | | 1 | | 2 | | | | |
| Thymus | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---------------------------------------------------|--|--|--|---|--|--|--|-----|--|-----|--|-----|--|--|--|-----|--|-----|--|--|--|-----|--|-----|--|-----|--|
| Mammary Gland | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 2 | | | | 2 | | | | 2 2 | | 3 2 | | 3 2 | | | | 2 3 | | 3 2 | | | | 2 2 | | 2 4 | | 3 2 | |
| Skin | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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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Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 6 | 3 | 6 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 4 | 7 | 7 | 7 | 3 | 4 | 7 | 6 |
| 5 | 4 | 5 | 9 | 2 | 4 | 5 | 2 | 4 | 4 | 4 | 3 | 3 | 5 | 4 | 2 | 6 | 4 | 4 | 2 | 5 | 4 | 2 | 5 | 4 |
| 6 | 8 | 8 | 5 | 3 | 0 | 8 | 3 | 0 | 0 | 0 | 3 | 4 | 8 | 0 | 8 | 9 | 0 | 0 | 8 | 8 | 1 | 0 | 8 | 0 |
| FISCHER 344 RATS FEMALE
ANIMAL ID
0.5% | 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 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

Subcutaneous Tissue, Edema

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Bone | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arthrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cranium, Osteopetrosis | | | | | | | | | | | | | 2 | | | | | | | | | | | | 3 | |
| Femur, Osteopetrosis | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | + | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---------------------------------------------------|--|---|--|--|--|--|--|--|--|--|--|---|--|---|--|---|--|--|--|--|--|--|--|---|--|--|--|
| Brain | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Developmental Malformation | X | | X | | | | | | | | | | | | | | X | | | | | | | | X | | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Hydrocephalus | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | + | | + | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | + | | + | | | | | | | | | | | | | |

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. 05128 - 06
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 D & C YELLOW NO. 11
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 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| 0.5% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 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 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | 1 | | 3 | | | | | | | | | | 2 | | | | | | | |
| Infiltration Cellular, Histiocyte Inflammation, Subacute | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | | 1 | 1 | |
| Alveolar Epithelium, Hyperplasia | | | | 2 | | | | | | | | | | | | 2 | | | | 3 | 2 | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Exudate | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | 2 | | | 2 | 2 | 2 | 2 | 1 | 2 | 1 | | 2 | | 1 | 1 | | 2 | 2 | 2 | 2 | | 1 | 1 |
| Nephropathy | 2 | 1 | 1 | 1 | 3 | 2 | 1 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 3 |
| Renal Tubule, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Renal Tubule, Necrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

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

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | | 6 | 6 | 3 | 6 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 4 | 7 | 7 | 7 | 3 | 4 | 7 | 6 | 7 |
| | | 5 | 4 | 5 | 9 | 2 | 4 | 5 | 2 | 4 | 4 | 4 | 3 | 3 | 5 | 4 | 2 | 6 | 4 | 4 | 2 | 5 | 4 | 2 | 5 | 4 |
| | | 6 | 8 | 8 | 5 | 3 | 0 | 8 | 3 | 0 | 0 | 0 | 3 | 4 | 8 | 0 | 8 | 9 | 0 | 0 | 8 | 8 | 1 | 0 | 8 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 0.5% | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 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 |
| | | 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 |
| | | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | |
| Renal Tubule, Pigmentation
Transitional Epithelium, Hyperplasia | | | | | 4 | | | | | | 1 | | | | | 2 | | | | | | | | | | |
| | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Urinary Bladder
Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked
 Page 196

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 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------|---------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 3 7 7 6 7 3 6 7 7 5 7 7 5 3 7 5 7 7 7 7 7 3 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.5% ANIMAL ID | 9 5 4 2 7 4 5 5 4 4 0 4 4 3 5 0 6 4 4 1 4 4 4 5 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 8 0 8 2 0 8 8 0 0 6 0 0 0 8 0 8 0 1 2 1 1 1 8 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5% 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 0.5% ANIMAL ID | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5% ANIMAL ID | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Subacute | 1 | | | | | | 1 | 2 | | | | | | | | | | | | | | | | 2 | 2 | |
| Mixed Cell Focus | | | X | | | | | | | X | | X | X | | | | | X | | | X | | | | | |
| Necrosis, Focal | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | |
| Thrombosis | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | | 1 | 2 | | 2 | | | | 1 | 1 | 1 | 2 | 2 |
| Bile Duct, Pigmentation | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 3 | |
| Centrilobular, Atrophy | | | | | | | | | | | 2 | | | | | | | | | | 3 | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Cytologic Alterations | | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 3 | 4 | | 2 | 3 | 2 | | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | |
| Hepatocyte, Pigmentation | | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | |
| Hepatocyte, Vacuolization Cytoplasmic | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | 2 | 1 | 2 | 1 | 2 | | 2 | 3 | | | | 1 | | | 2 | 1 | | 1 | 2 | 2 | | 2 | 1 | 2 | 1 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
 Page 198

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 3 | 7 | 7 | 6 | 7 | 3 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | |
| | 9 | 5 | 4 | 2 | 7 | 4 | 5 | 5 | 4 | 4 | 0 | 4 | 4 | 3 | 5 | 0 | 6 | 4 | 4 | 1 | 4 | 4 | 4 | 5 | |
| | 6 | 8 | 0 | 8 | 2 | 0 | 8 | 8 | 0 | 0 | 6 | 0 | 0 | 0 | 8 | 0 | 8 | 0 | 1 | 2 | 1 | 1 | 1 | 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 | |
| FISCHER 344 RATS FEMALE | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 0.5% | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | | |
| ANIMAL ID | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | 3 | 4 | | | | | 3 | 2 | | | | | | | |
| Pars Distalis, Cyst | | X | | | | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | | | 3 | 3 | | | | | 3 | | | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | 3 | 3 | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | 3 | | | | | | 3 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Ultimobranchial Cyst | | | 3 | | | | | 3 | | | 3 | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | | | 1 | | | | | | | | | | | 2 | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | 3 | | | | | | | | | | | | | |

females (cont...)

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 200

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 5 3 7 7 6 7 3 6 7 7 5 7 7 5 3 7 5 7 7 7 7 7 3 7 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.5% ANIMAL ID | 9 5 4 2 7 4 5 5 4 4 0 4 4 3 5 0 6 4 4 1 4 4 4 5 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 8 0 8 2 0 8 8 0 0 6 0 0 0 8 0 8 0 1 2 1 1 1 8 9 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.5% 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 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrometra | 2 4 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | M M | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 4 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Iliac, Pigmentation | 3 3 3 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | 3 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | 3 3 2 3 2 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | 3 3 2 3 2 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Granuloma | 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | 4 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | 4 3 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | 4 3 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | 4 3 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | 4 3 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Pigmentation | 4 3 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | 2 3 | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Requested: 06/07/2007
 Time Report Requested: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 5 3 7 7 6 7 3 6 7 7 5 7 7 5 3 7 5 7 7 7 7 7 3 7 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.5% ANIMAL ID | 9 5 4 2 7 4 5 5 4 4 0 4 4 3 5 0 6 4 4 1 4 4 4 5 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 8 0 8 2 0 8 8 0 0 6 0 0 0 8 0 8 0 1 2 1 1 1 8 9 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
0.5% 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 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------------------------------------------------|---|--|--|--|--|--|--|--|--|--|--|---|-----|-------|---|--|--|--|--|--|--|--|--|---|--|--|-----|-------|-----|-----|-------|---|-----|
| Hemorrhage | | | | | | | | | | | | | 1 | 1 2 | | | | | | | | | | | | | | 2 | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 3 | | | | | | |
| Pigmentation | 2 | 2 | | | | | | | | | | | | | 2 | 3 | | | | | | | | | | | | | 2 2 2 | 2 | 3 | | | |
| Lymph Node, Mediastinal | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | |
| Lymph Node, Mesenteric | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Spleen | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | 2 | 1 | 2 | | | | | | | | | | | | | 2 4 | 2 4 | 1 3 | 2 1 | 1 2 2 | | |
| Necrosis | | | | | | | | | | | | | 2 | 1 | 2 | | | | | | | | | | | | | 3 | 2 2 | | | 2 2 2 | 3 | 3 2 |
| Pigmentation | | | | | | | | | | | | | 2 | 2 | 2 3 2 | | | | | | | | | | | | | 3 | 2 2 | | | 2 2 2 | 3 | 3 2 |
| Thymus | + + + + + + + + + + M M + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|---|---------|--|--|--|--|--|--|--|--|--|--|--|--|-----------|-------|-----|---|
| Mammary Gland | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | 2 | 2 2 2 3 | | | | | | | | | | | | | 3 2 2 2 2 | 2 3 3 | 3 2 | 2 |
| Skin | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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TDMS No. 05128 - 06
 Test Type: CHRONIC
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 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 3 | 7 | 7 | 6 | 7 | 3 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | |
| | 9 | 5 | 4 | 2 | 7 | 4 | 5 | 5 | 4 | 4 | 0 | 4 | 4 | 3 | 5 | 0 | 6 | 4 | 4 | 1 | 4 | 4 | 4 | 5 | 2 |
| | 6 | 8 | 0 | 8 | 2 | 0 | 8 | 8 | 0 | 0 | 6 | 0 | 0 | 0 | 8 | 0 | 8 | 0 | 1 | 2 | 1 | 1 | 1 | 8 | 9 |
| FISCHER 344 RATS FEMALE
ANIMAL ID
0.5% | 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 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| | 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 |

females
(cont...)

Subcutaneous Tissue, Edema

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Arthrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Cranium, Osteopetrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Femur, Osteopetrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | |

Skeletal Muscle

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brain | + + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Developmental Malformation | 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 | | | | | | | | | | | | | | | | | | | | | | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | 3 3 | | | | | | | | | | | | | | | | | | | | | | | |

Peripheral Nerve

Spinal Cord

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
 Page 203
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | 5 3 7 7 6 7 3 6 7 7 5 7 7 5 3 7 5 7 7 7 7 7 3 7 | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
ANIMAL ID | 9 5 4 2 7 4 5 5 4 4 0 4 4 3 5 0 6 4 4 1 4 4 4 5 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 8 0 8 2 0 8 8 0 0 6 0 0 0 8 0 8 0 1 2 1 1 1 8 9 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5% | 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 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 7 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Edema | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 3 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 1 1 1 1 1 1 1 1 1 2 4 1 3 1 1 1 1 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Subacute | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 3 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Exudate | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ear | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lacrimal Gland | + | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | + | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney | + + + + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 2 3 2 2 2 2 3 1 2 1 2 1 2 1 2 1 2 3 2 2 1 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 2 1 3 2 3 3 1 1 2 3 1 3 2 1 1 2 1 2 1 2 3 2 2 1 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 204

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 3 | 7 | 7 | 6 | 7 | 3 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 3 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 3 | 7 |
| | 9 | 5 | 4 | 2 | 7 | 4 | 5 | 5 | 4 | 4 | 0 | 4 | 4 | 3 | 5 | 0 | 6 | 4 | 4 | 1 | 4 | 4 | 4 | 5 |
| | 6 | 8 | 0 | 8 | 2 | 0 | 8 | 8 | 0 | 0 | 6 | 0 | 0 | 0 | 8 | 0 | 8 | 0 | 1 | 2 | 1 | 1 | 1 | 8 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Renal Tubule, Pigmentation | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 |
| Transitional Epithelium, Hyperplasia | | | | | | | 2 | | | | | | | | 1 | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | | | |

females
(cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 205

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

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

*** TOTALS**

ALIMENTARY SYSTEM

| | | | | | | | | | | | | |
|-------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|----|------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 56 | |
| Intestine Large, Cecum
Ulcer | + | + | + | + | + | + | + | + | + | + | 59 | 1 2.0 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | 60 | 3 |
| Intestine Large, Rectum
Edema
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | 59 | 1 3.0
3 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 59 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 58 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 60 | |
| Liver | + | + | + | + | + | + | + | + | + | + | 60 | |
| Angiectasis | | | | | | | | 1 | | | | 1 1.0 |
| Basophilic Focus | | X | | X | | X | | | X | | | 13 |
| Clear Cell Focus | | X | | X | | X | X | X | X | | | 34 1.0 |
| Degeneration, Cystic | | | | | | | | | | | | 1 1.0 |
| Eosinophilic Focus | | | | X | | | | | | | | 16 |
| Granuloma | | | | | | | | | | | | 1 4.0 |
| Hematopoietic Cell Proliferation | | | | | 2 | | | 2 | | | | 7 1.7 |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 5 | 3 | 1 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | |
| | 9 | 5 | 4 | 4 | 4 | 2 | 5 | 4 | 4 | 4 | |
| | 0 | 8 | 7 | 1 | 1 | 9 | 6 | 1 | 1 | 8 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.5% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Hepatodiaphragmatic Nodule | | | | | | X | X | | | | 5 |
| Inflammation, Subacute | 2 | | | | | | | | | | 12 1.4 |
| Mixed Cell Focus | | | | X | X | X | | X | X | | 16 |
| Necrosis, Focal | | | | | | | | | | | 4 1.3 |
| Thrombosis | | | | | | | | | | | 2 2.0 |
| Bile Duct, Hyperplasia | 2 | 2 | | 1 | 2 | | | 1 | 1 | | 42 1.5 |
| Bile Duct, Pigmentation | 3 | 2 | | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 59 2.4 |
| Centrilobular, Atrophy | | | | | 2 | | | | | | 5 2.6 |
| Centrilobular, Necrosis | 3 | | | | | | | | | | 1 3.0 |
| Hepatocyte, Cytologic Alterations | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 49 2.4 |
| Hepatocyte, Pigmentation | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 59 2.4 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | 4 3.0 |
| Kupffer Cell, Pigmentation | | 2 | 2 | 2 | 2 | | 1 | 2 | 2 | 2 | 41 1.8 |
| Mesentery | | | | | | | | + | | | 14 |
| Accessory Spleen | | | | | | | | | | | 2 |
| Fat, Necrosis | | | | | | | 3 | | | | 11 2.6 |
| Oral Mucosa | | | | | + | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 60 |
| Atrophy | | | | | 3 | | | 4 | | | 15 2.0 |
| Acinar Cell, Cytoplasmic Alteration | | | | | | | | | | | 2 2.5 |
| Acinar Cell, Hyperplasia, Focal | | | | | | | | | | | 1 2.0 |
| Salivary Glands | + | + | + | + | + | | + | + | + | + | 59 |
| Atrophy | | | | 2 | | | | 2 | 1 | | 15 1.7 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 60 |
| Edema | 2 | | | | | | | | | | 4 1.8 |

* .. 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
 Page 207
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|
| | 5 | 3 | 1 | 7 | 7 | 7 | 6 | 7 | 7 | 4 |
| | 9 | 5 | 4 | 4 | 4 | 2 | 5 | 4 | 4 | 4 |
| | 0 | 8 | 7 | 1 | 1 | 9 | 6 | 1 | 1 | 8 |
| <hr/> | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

*** TOTALS**

| | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Ulcer | | | | | | | | | | | 3 2.3 |
| Mucosa, Hyperplasia | 2 | | | 1 | 2 | 2 | | | 1 | | 27 1.9 |
| <hr/> | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 60 |
| Edema | | | | | | | | | | | 2 2.0 |
| Erosion | | | | | | | | | | | 2 2.0 |
| Mineralization | | | | | | | | | | | 2 1.5 |
| <hr/> | | | | | | | | | | | |
| Tongue | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 60 |
| <hr/> | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | 60 |
| Cardiomyopathy | | | | | 2 | | | | | | 12 1.3 |
| Mineralization | | | | | | | | | | | 1 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 60 |
| Accessory Adrenal Cortical Nodule | | X | | | | | 3 | 3 | | | 14 2.2 |
| Degeneration, Fatty | | | | | | | 1 | | | | 5 1.2 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Focal | | | | | | | | | | | 1 3.0 |
| Hyperplasia, Diffuse | | | | | | | | | | | 1 2.0 |
| Necrosis | | | | | | | | | | | 1 3.0 |

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

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 5 | 3 | 1 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | | | | | | | | | |
| | 9 | 5 | 4 | 4 | 4 | 2 | 5 | 4 | 4 | 4 | | | | | | | | | |
| | 0 | 8 | 7 | 1 | 1 | 9 | 6 | 1 | 1 | 8 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | * TOTALS |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 59 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | M | + | | | | | | | | 59 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 |
| Pars Distalis, Angiectasis | 3 | | | | 3 | 3 | | | | | 3 | | | | | | | | 13 2.9 |
| Pars Distalis, Cyst | | X | 2 | | 3 | | | | | | | | | | | | | | 26 3.0 |
| Pars Distalis, Hyperplasia, Focal | 3 | 3 | | 1 | 2 | | | | | | | | | | | | | | 9 2.3 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 |
| Ultimobranchial Cyst | | X | | | | | | | | | | | | | | | | | 5 3.0 |
| C-cell, Hyperplasia | | | | | | | | | | | | | 4 | | | | | | 9 1.7 |
| Follicle, Cyst | | | | | | | 3 | | | | | | | | | | | | 4 3.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic | | | | | | 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. 05128 - 06
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 Species/Strain: RATS/F 344

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 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|----------|
| | 5 | 3 | 1 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | |
| | 9 | 5 | 4 | 4 | 4 | 2 | 5 | 4 | 4 | 4 | |
| | 0 | 8 | 7 | 1 | 1 | 9 | 6 | 1 | 1 | 8 | |
| <hr/> | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0.5% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | 60 |
| Cyst | | | X | | | 3 | | | 3 | | 19 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | 60 |
| Hydrometra | | | | | 3 | | | | | | 10 2.5 |
| Vagina | | | | | | | M | | | | 0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 60 |
| Hyperplasia | | | | | | | | | | | 5 3.2 |
| Myelofibrosis | | | 1 | | | | | | | | 3 2.0 |
| Lymph Node | + | + | | | | | | + | | | 17 |
| Iliac, Pigmentation | | | | | | | | | | | 1 3.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | 4 2.5 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | 1 2.0 |
| Mediastinal, Pigmentation | | | | | | | | 3 | | | 10 2.8 |
| Pancreatic, Granuloma | | | | | | | | | | | 1 2.0 |
| Pancreatic, Hemorrhage | 1 | | | | | | | | | | 2 1.5 |
| Pancreatic, Hyperplasia, Lymphoid | | | 2 | | | | | | | | 2 3.0 |
| Pancreatic, Pigmentation | 3 | | 3 | | | | | | | | 8 3.5 |
| Renal, Hemorrhage | | | | | | | | | | | 1 3.0 |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | 1 3.0 |
| Renal, Pigmentation | | | | | | | | | | | 1 4.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 58 |
| Ectasia | | | | | | | | | | | 5 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

Page 210

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|--|-----------------|-----|
| DAY ON TEST | 5 | 3 | 1 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | | | |
| | 9 | 5 | 4 | 4 | 4 | 2 | 5 | 4 | 4 | 4 | | | |
| | 0 | 8 | 7 | 1 | 1 | 9 | 6 | 1 | 1 | 8 | | | |
| <hr/> | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 0.5% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |
| | | | | | | | | | | | | * TOTALS | |
| Hemorrhage | | | | | | | | | | | | 7 | 1.9 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 13 | 2.5 |
| Pigmentation | | | | | | | | | | | | 21 | 2.2 |
| <hr/> | | | | | | | | | | | | | |
| Lymph Node, Mediastinal | | | | | | | | | | | | 3 | |
| <hr/> | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | | 60 | |
| Hemorrhage | 1 | | | | | | | | | | | 2 | 1.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 2 | 2.0 |
| Pigmentation | | | | | | | | | | | | 1 | 4.0 |
| <hr/> | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | | 60 | |
| Congestion | | | | | | | | | | | | 1 | 3.0 |
| Developmental Malformation | | | | | | | | | | | | 1 | 2.0 |
| Fibrosis | | | | | | | | | | | | 4 | 3.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | 32 | 2.1 |
| Necrosis | | | | | | | | | | | | 1 | 4.0 |
| Pigmentation | 4 | 2 | 2 | 2 | | 2 | 3 | 1 | 2 | 2 | | 38 | 2.2 |
| <hr/> | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | | 58 | |
| Hyperplasia | | | | | | | | | | | | 1 | 3.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|--|----|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | | 60 | |
| Hyperplasia | 2 | | | 2 | 2 | 2 | 2 | | 2 | 2 | | 42 | 2.3 |
| <hr/> | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | | 60 | |

* .. 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. 05128 - 06
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 5 | 3 | 1 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | | |
| | 9 | 5 | 4 | 4 | 4 | 2 | 5 | 4 | 4 | 4 | | |
| | 0 | 8 | 7 | 1 | 1 | 9 | 6 | 1 | 1 | 8 | | |
| <hr/> | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 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 |
| 0.5% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | * TOTALS |
| Subcutaneous Tissue, Edema | 3 | | | | | | | | | | | 1 3.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|----------|--------------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | 60 | |
| Arthrosis | | | 4 | | | | | | | | | | 1 4.0 |
| Cranium, Osteopetrosis | | | | | | | | | | | | | 3 2.7 |
| Femur, Osteopetrosis | | | | | | | | | | | | | 2 2.5 |
| Skeletal Muscle | | | | | | | | | | | | 1 | |

NERVOUS SYSTEM

| | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|----|--------------|
| Brain | + | + | + | + | + | + | + | + | + | + | 60 | |
| Developmental Malformation | | | | | | X | X | | | X | | 14 |
| Gliosis | | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | | 1 2.0 |
| Hydrocephalus | | | | | | | 2 | | | | | 4 2.8 |
| Peripheral Nerve | | | | | | | | | | | | 2 |
| Spinal Cord | | | | | | | | | | | | 2 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|----|--|
| Lung | + | + | + | + | + | + | + | + | + | + | 60 | |
|------|---|---|---|---|---|---|---|---|---|---|----|--|

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 212

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 05128 - 06
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 Route: DOSED FEED
 Species/Strain: RATS/F 344

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 D & C YELLOW NO. 11
 CAS Number: 8003-22-3

Date Report Reqsted: 06/07/2007
 Time Report Reqsted: 11:47:58
 First Dose M/F: 04/26/90 / 04/26/90
 Lab: SRI

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|--|-----------------|
| | 5 | 3 | 1 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | | |
| | 9 | 5 | 4 | 4 | 4 | 2 | 5 | 4 | 4 | 4 | | |
| | 0 | 8 | 7 | 1 | 1 | 9 | 6 | 1 | 1 | 8 | | |
| <hr/> | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0.5% | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | * TOTALS |
| Edema | | | | | | | | | | | | 1 2.0 |
| Hemorrhage | | | | | | | | | | | | 6 2.3 |
| Infiltration Cellular, Histiocyte | | | | 1 | 2 | 1 | 1 | 1 | 1 | | | 43 1.3 |
| Inflammation, Subacute | 1 | | | | | | | | | | | 4 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | 6 2.3 |
| <hr/> | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | | 60 |
| Exudate | | | | | | | | | | | | 2 3.0 |
| Mucosa, Metaplasia, Squamous | | | | | | | | | | | | 1 2.0 |
| <hr/> | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | | 60 |
| <hr/> | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | 1 |
| <hr/> | | | | | | | | | | | | |
| Lacrimal Gland | | | | | | | | | | | | 1 |
| <hr/> | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | 1 |
| <hr/> | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | | 60 |
| Mineralization | 2 | 1 | 2 | 2 | | 2 | 1 | 2 | 3 | 2 | | 42 1.8 |
| Nephropathy | 3 | 1 | | 3 | 2 | 3 | 3 | 2 | 3 | 2 | | 59 2.0 |
| Renal Tubule, Cytoplasmic Alteration | | | | | | | | | | | | 1 3.0 |
| Renal Tubule, Necrosis | | | | | | | | | | | | 1 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 5 | 3 | 1 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | | |
| | 9 | 5 | 4 | 4 | 4 | 2 | 5 | 4 | 4 | 4 | | |
| | 0 | 8 | 7 | 1 | 1 | 9 | 6 | 1 | 1 | 8 | | |
| | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0.5% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | * TOTALS |
| Renal Tubule, Pigmentation | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | | 60 3.2 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | 5 2.0 |
| | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | | 60 |
| Hyperplasia | | | | | | | | | | | | 1 2.0 |

*** END OF REPORT ***

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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