

TDMS No. 99013 - 05
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Styrene-acrylonitrile trimer
CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
Time Report Requested: 12:12:35
First Dose M/F: 05/12/05 / 05/13/05
Lab: BAT

F2_R2

C Number: C99013
Lock Date: 03/27/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.2.0

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

ALIMENTARY SYSTEM

Esophagus Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum Inflammation Necrosis	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
			1																				
Intestine Large, Colon Mineralization Parasite Metazoan	+	+	+	+	+																		
						2																	
										X	X												
Intestine Large, Rectum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver Angiectasis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus																							2
Clear Cell Focus	X									X	X	X	X	X	X	X	X				X	X	X
Degeneration, Cystic																							
Eosinophilic Focus																							
Fatty Change, Diffuse Fibrosis																							

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

FISCHER 344 RATS MALE 0 PPM	DAY ON TEST																							ANIMAL ID	males (cont...)	
	0 7	0 6	0 5	0 2	0 7	0 4	0 6	0 6	0 6	0 7	0 7	0 6	0 7	0 7	0 7	0 7	0 7	0 7	0 7	0 7	0 7	0 6	0 7			
Hematopoietic Cell Proliferation																										
Hepatodiaphragmatic Nodule																			X	X						
Inflammation, Chronic Active	1				1		1				1		1	1	1		1	1	1	1	1	1		1		
Mixed Cell Focus										X	X								X		X					
Necrosis		2																								
Pigmentation, Hemosiderin											2												1			
Bile Duct, Cyst																										
Bile Duct, Hyperplasia	2					1				3	2	1	1	1	2	2	1	1	1	2	1	2	1	2	3	1
Mesentery																										
Fat, Necrosis																										
Oral Mucosa																										
Pharyngeal, Hyperplasia, Squamous																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Acinus, Atrophy																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dysplasia																										
Inflammation																										
Mineralization																										
Ulcer																										
Epithelium, Hyperplasia																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																										
Inflammation																										

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		DAY ON TEST																				males (cont...)				
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 PPM		7	6	5	2	7	4	6	6	6	7	7	6	7	7	7	7	7	7	7	7		6	7		
		2	1	2	0	2	7	6	7	7	2	2	1	2	2	2	2	2	2	2	2	2	7	2		
		7	4	3	0	2	4	2	0	0	7	7	2	6	6	6	6	6	6	6	6	6	3	7		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	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
		ANIMAL ID																								

Mineralization 4
 Ulcer 2 3 2

Tooth + +
 Malformation 1
 Pulp, Inflammation 3

CARDIOVASCULAR SYSTEM

Blood Vessel +
 Mineralization 3
 Heart +
 Cardiomyopathy 3 2 2 1 2 2 2 2 2 2 3 3 3 2 2 3 3 3 2 3 2 3 3 2 2
 Atrium, Thrombosis 2

ENDOCRINE SYSTEM

Adrenal Cortex +
 Hyperplasia
 Hypertrophy 2
 Necrosis 2 1
 Vacuolization Cytoplasmic 3 3
 Adrenal Medulla +
 Hyperplasia
 Islets, Pancreatic +
 Hyperplasia
 Parathyroid Gland + + + + + + + + M + M M + + M M M M + + M + + + +

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

Hyperplasia 2 2

Pituitary Gland
 Pars Distalis, Hyperplasia +
 1 3 3 1 3

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis +

Preputial Gland
 Inflammation +

Prostate
 Inflammation +
 Epithelium, Hyperplasia 1 2 1 1 2 2 1 1 1 1 1 1 1 1 2 2 1 3 1
 1 1 1 4

Seminal Vesicle +

Testes
 Germinal Epithelium, Degeneration +
 Interstitial Cell, Hyperplasia 2 4 2 3 2

HEMATOPOIETIC SYSTEM

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	0 7 2 7	0 6 1 4	0 5 2 3	0 2 0 0	0 7 2 4	0 4 7 2	0 6 6 0	0 6 7 0	0 6 7 0	0 7 2 7	0 7 2 7	0 6 1 2	0 7 2 6	0 7 2 6	0 7 2 6	0 7 2 6	0 7 2 6	0 7 2 6	0 7 2 6	0 7 2 6	0 7 2 6	0 7 2 6	0 7 2 6			
ANIMAL ID	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5
Bone Marrow Fibrosis	+																									
Hyperplasia	2	2																								
Myelofibrosis								3	4			3		1	1	1		1	2				1	3	4	
Lymph Node Deep Cervical, Ectasia Pancreatic, Inflammation																										
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Lymph Node, Mesenteric Ectasia Hyperplasia, Histiocytic	+																									
Spleen Hematopoietic Cell Proliferation Hyperplasia, Histiocytic Hyperplasia, Lymphoid Necrosis Pigmentation, Hemosiderin Lymphoid Follicle, Atrophy																										
Thymus Atrophy Necrosis			M																							
	3	3		1	3	4	3	3	4	3	4	4	3	3	3	3	3	4	3	3	3	3	3	3	3	

INTEGUMENTARY SYSTEM

Mammary Gland	+																						
---------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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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	ANIMAL ID		
	7	6	5	2	7	4	6	6	6	7	7	6	7	7	7	2	2	2	2	2	2	2	2	2			0
FISCHER 344 RATS MALE	2	1	2	0	2	7	6	7	7	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	0	0	
	7	4	3	0	2	4	2	0	0	7	7	2	6	6	6	6	6	6	6	6	6	6	6	6	0	0	
0 PPM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	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...)	
Fibrosis	2																									2	
Hyperplasia																						1					
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																										X	
Fibrosis																										2	
Inflammation																										2	
Ulcer				3	3																						
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Osteopetrosis									2																		
Skeletal Muscle																											
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Demyelination		1																									
Hemorrhage		1			1								1									1					
Mineralization	1																										
Spinal Cord																										+	
Meninges, Infiltration Cellular, Mononuclear Cell																										1	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																											

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

Mineralization
 Alveolar Epithelium, Hyperplasia
 Alveolus, Infiltration Cellular, Histiocyte

3
 1 2 2
 2 1 2

Nose
 Inflammation
 Respiratory Epithelium, Hyperplasia

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

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye
 Cornea, Inflammation
 Lens, Cataract
 Retina, Degeneration
 Retina, Gliosis

+
 2 1 2 2

Harderian Gland
 Hyperplasia

+ +

Zymbal's Gland

URINARY SYSTEM

Kidney
 Accumulation, Hyaline Droplet
 Infarct
 Mineralization
 Nephropathy
 Papilla, Necrosis

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

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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|--------------|---|---|---|---|---|---|---|--|--|
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 PPM | 7 | 6 | 5 | 2 | 7 | 4 | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | | | | | | |
| | | 2 | 1 | 2 | 0 | 2 | 7 | 6 | 7 | 7 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | | | | | | | |
| | | 7 | 4 | 3 | 0 | 2 | 4 | 2 | 0 | 0 | 7 | 7 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 7 | | | | | | | | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | males | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | (cont...) | | | | | | | | | | | |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE
0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0727 | 0390 | 0726 | 0645 | 0726 | 0776 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0677 | 0777 | 0777 | 0677 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| ANIMAL ID | 00026 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----------------|
| Esophagus Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 |
| Intestine Large, Cecum Inflammation Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 3.0
1 1.0 |
| Intestine Large, Colon Mineralization Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0
9 |
| Intestine Large, Rectum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 4.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 |
| Basophilic Focus | X | | X | X | X | X | X | X | | X | X | X | | X | | X | | | | | | | X | 27 | | |
| Clear Cell Focus | | | X | X | X | X | X | X | X | X | | | | X | | | | X | X | X | | | | X | 25 | |
| Degeneration, Cystic | | | | | | | | 1 | | | | | | | | | | | | | | | | | 7 | 1.3 |
| Eosinophilic Focus | | | X | | X | | | | | X | | | | X | | X | | | | X | | | | | 17 | |
| Fatty Change, Diffuse Fibrosis | | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 | 2.0
1 1.0 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | TOTALS | | | | | |
|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|----------|-----|--|
| | 0
7
2
7 | 0
3
9
0 | 0
7
2
6 | 0
6
4
5 | 0
7
2
6 | 0
7
2
6 | 0
7
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6 | 0
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6 | 0
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6 | 0
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6 | 0
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6 | 0
7
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6 | 0
7
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6 | 0
6
1
7 | 0
7
2
7 | 0
7
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7 | 0
6
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5 | 0
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2
6 | 0
7
2
6 | 0
7
2
6 | 0
7
2
6 | | 0
7
2
7 | 0
7
2
7 | * TOTALS | | |
| 0 PPM | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0
0
0
2
6 | 0
0
0
2
7 | 0
0
0
2
8 | 0
0
0
2
9 | 0
0
0
3
0 | 0
0
0
3
1 | 0
0
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2 | 0
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3 | 0
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3
4 | 0
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5 | 0
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6 | 0
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7 | 0
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8 | 0
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9 | 0
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0 | 0
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4
1 | 0
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4
2 | 0
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3 | 0
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6 | 0
0
0
4
7 | 0
0
0
4
8 | 0
0
0
4
9 | 0
0
0
5
0 | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 | | | 2 | 1.0 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | X | | | | | | | | 4 | |
| Inflammation, Chronic Active | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 34 | 1.0 | |
| Mixed Cell Focus | | | | | | | X | | | | | | | | | | | | | | | | | | | | 6 | | |
| Necrosis | | | 2 | | | | | | | | | | | | | | | | 1 | | | | | | | | 3 | 1.7 | |
| Pigmentation, Hemosiderin | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 3 | 1.3 | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 | 1.0 | |
| Bile Duct, Hyperplasia | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 41 | 1.3 | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pharyngeal, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Inflammation | | | | | | | | | | | | | | | | | 3 | | | | | | | | | 2 | 2.5 | | |
| Acinus, Atrophy | | | 2 | | | | | | 1 | | | 2 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | | 1 | 19 | 1.2 | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | | |
| Inflammation | | | | | | | | | | | | | | | | 2 | | | 1 | | | | | | | 6 | 2.3 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Ulcer | | | | | | | | | | | | | | | | 3 | | | 2 | | | | | | | 6 | 3.2 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 2 | | | 2 | | | | | | | 7 | 2.1 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Erosion | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |

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

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

1-4 .. Lesion qualified as:
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 CAS Number: SANTRIMER2

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 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-----|---|-----|
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4 | 2.3 |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pulp, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cardiomyopathy | 2 | 1 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 50 | 50 | 2.3 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|---|-----|-----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | M | + | M | + | 35 | | | | |

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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-----------------------------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|--------|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | |
| 7 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| 2 | 9 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 7 | 0 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 6 | 6 | 7 | |
| 0 PPM | 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 | |
| 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Hyperplasia | 3 | | | | 1 | | | 2 | 2 | | | | | 2 | 1 | | | 2 | 1 | 1 | | 1 | 2 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | | | | | 2 | 1 | | 3 | | 1 | | 1 | | | | | | 2 | | | | 1 | 14 | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | 3 | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | 1 | | 2 | 3 | | | 2 | 1 | 1 | 1 | 3 | 1 | 3 | 2 | 1 | 1 | 1 | | 2 | 1 | 1 | | 37 | |
| Epithelium, Hyperplasia | | | | | 1 | | | | | | | | | | | | 1 | | | | 2 | | 9 1.6 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Germinal Epithelium, Degeneration | | | | | | | | | | | | | | | 2 | | | 4 | | 4 | 4 | | 5 3.4 | |
| Interstitial Cell, Hyperplasia | | | | 4 | | | | | | 4 | | 1 | 4 | 4 | | | | | 3 | 1 | | | 12 2.8 | |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0727 | 0730 | 0737 | 0746 | 0757 | 0772 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| ANIMAL ID | 00026 | 00007 | 00008 | 00009 | 00000 | 00001 | 00002 | 00003 | 00004 | 00005 | 00006 | 00007 | 00008 | 00009 | 00000 | 00001 | 00002 | 00003 | 00004 | 00005 | 00006 | 00007 | 00008 | 00009 | 00000 |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrosis | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 |
| Hyperplasia | 1 | 2 | | | | 1 | | | | | | | | | 4 | 2 | | 2 | 1 | 1 | 1 | 1 | | 1 | 24 1.9 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node | | | | + | | | | | | | | | | | + | | | | | | | | + | | 7 |
| Deep Cervical, Ectasia | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |
| Pancreatic, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ectasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Histiocytic | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hematopoietic Cell Proliferation | | 2 | | | | | | | | | | | | | | | | 3 | | | | | | | 4 1.8 |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 1 | | | | | | | | | | | | | 2 2.5 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pigmentation, Hemosiderin | | | | 1 | | 1 | | | | | 1 | | 1 | 1 | | | | | | | | | 1 | | 8 1.1 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | 2 | | | | | | | | 3 2.7 |
| Thymus | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | 3 | | 3 | | 3 | 3 | | 4 | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | 3 | 3 | 3 | 2 | | 3 | 3 | 44 3.1 |
| Necrosis | | 4 | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE
0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|-----|-----|---|-----|
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| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Demyelination | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.0 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 | 1.0 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Meninges, Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | 7 | 1.6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99013 - 05
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/F 344/N

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 Styrene-acrylonitrile trimer
CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
Time Report Requested: 12:12:35
First Dose M/F: 05/12/05 / 05/13/05
Lab: BAT

| FISCHER 344 RATS MALE
0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
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| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | |
| Alveolar Epithelium, Hyperplasia | 2 | | | | 1 1 | | | | | 1 1 | 1 1 | | | | | | 1 | | | | | | 13 1.3 | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Inflammation | 1 | + | 2 | + | + | 2 | + | 2 | + | 2 | + | 2 | + | 1 | + | 1 | + | + | + | + | 1 | 1 | + | 1 | + | + | 24 1.3 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Cornea, Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Lens, Cataract | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Retina, Degeneration | 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 | | | |
| Retina, Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | 1 | | | | | | 2 | | | | | | 3 1.3 |
| Infarct | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | |
| Nephropathy | 2 | 1 | 1 | 1 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 47 2.2 | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | |

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

TDMS No. 99013 - 05
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|----------|
| DAY ON TEST | | 7 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| FISCHER 344 RATS MALE | ANIMAL ID | 2 | 9 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 7 | 0 | 6 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Renal Tubule, Necrosis | | | | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 2.0 | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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1-4 .. Lesion qualified as:
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 CAS Number: SANTRIMER2

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 400 PPM | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 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 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 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 | 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 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | | | | X | X | | | | | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | X | X | X | | | | | X | | X | | | | | | | X | | X | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | X | X | X | X | X | | | | X | | X | | X | X | | | | | X | | X | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 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 | 1 | |
| Mixed Cell Focus | | X | X | X | | | | | | X | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-----------------------|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| FISCHER 344 RATS MALE | | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | |
| 400 PPM | | 00051 | 00052 | 00053 | 00054 | 00055 | 00056 | 00057 | 00058 | 00059 | 00060 | 00061 | 00062 | 00063 | 00064 | 00065 | 00066 | 00067 | 00068 | 00069 | 00070 | 00071 | 00072 | 00073 | |
| 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 | |

Regeneration
Bile Duct, Hyperplasia

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Mesentery
Fat, Necrosis

+
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Pancreas
Acinus, Atrophy
Acinus, Hyperplasia

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Salivary Glands
Atrophy

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2

Stomach, Forestomach
Erosion
Inflammation
Ulcer
Epithelium, Hyperplasia

+
1 1 1

Stomach, Glandular
Erosion
Inflammation

+
2

Tooth
Malformation

+ +
1 1 1

CARDIOVASCULAR SYSTEM

Blood Vessel
Thrombosis

+
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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE
400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|--------------------|
| | 0
7
2
6 | 0
7
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6 | 0
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6 | 0
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6 | 0
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6 | 0
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6 | 0
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6 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
0
5
1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | | | 3 | |
| Infiltration Cellular | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | 3 | | | 2 | | 3 | | 4 | | | | 3 | | | | | 2 | | 4 | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | 1 | | 4 | | 2 | | 1 | | | 2 | | | 2 | | 1 | 2 | | | | 2 | 2 | | 1 | 1 | 2 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | | | 1 | | | 1 | | | | 1 | | | | | | | | | | | | | 1 | 1 | | |
| Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|---|
| FISCHER 344 RATS MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) | |
| | | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | | 7 |
| | 400 PPM | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | | 2 |
| | 6 | 6 | 6 | 6 | 6 | 4 | 6 | 6 | 6 | 3 | 7 | 1 | 7 | 7 | 7 | 4 | 6 | 3 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | | 7 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | 5 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | 1 | | | | | | | | 2 | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 2 | | 1 | 1 | | 1 | 1 | | 1 | 2 | | | 1 | 2 | | 2 | 1 | 1 | | 1 | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | 1 | 3 | | | | | | | 1 | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Germinal Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rete Testes, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | 1 | | | | | 1 | 1 | | | | 3 | | | 3 | 1 | 2 | 3 | 2 | 1 | | | 1 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Lymph Node | | | | | | | | | | + | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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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 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mesenteric Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | 2 | 1 | | | | | | | | | 2 | 2 | | | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 3 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

* .. 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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Styrene-acrylonitrile trimer
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| FISCHER 344 RATS MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) |
| | ANIMAL ID | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | |

Skeletal Muscle +

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | 1 | | | | | | | 1 | | | | 1 | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | 1 | | | 1 | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | 1 | | | 2 | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | X | | | | | | | | | | | | | | | |
| Inflammation | 1 | 2 | 2 | | 1 | | | 3 | | 4 | | 2 | 2 | 1 | | 1 | | 3 | | | | 1 | |
| Olfactory Epithelium, Necrosis | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Necrosis | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
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400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|----|-----|
| | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | | | | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | | | | |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Bile Duct, Hyperplasia | 2 | 2 | 1 | 2 | 1 | | 2 | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 46 | 1.3 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 5 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.3 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Acinus, Atrophy | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | | 1 | 1 | 1 | | 1 | 1 | | | 1 | 2 | | | | | | 33 | 1.4 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | | | | 2 | 2.5 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation | 1 | | 4 | | | 3 | | | | | | | | | | | | | | | | | | | 4 | 2.3 |
| Ulcer | | | 2 | | | 2 | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Epithelium, Hyperplasia | | | 3 | | | 2 | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 | 2.0 |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Malformation | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

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 + .. Tissue examined microscopically
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 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE

400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|-----|-----|
| | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | | | | | | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 3 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 49 | 2.3 | |
| Infiltration Cellular Artery, Hypertrophy | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 | 3.0 | |
| | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 | 3.0 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.0 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Vacuolization Cytoplasmic | | | | | | | 3 | | | | | | | | | | | 3 | | | | | | | | 3 | 3.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | 1 | | | | 4 | | | | | | | | | | 3 | | 4 | | | | | | 11 | 3.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Pars Distalis, Hyperplasia | | | 3 | | | | | 1 | 1 | 1 | 1 | | | | 2 | | 2 | 1 | | 1 | | 2 | | 3 | 2 | 25 | 1.7 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | 1 | 2 | | 1 | 3 | | | | | 3 | | | 1 | | | | | | | 1 | | | 1 | | 14 | 1.5 | |
| Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |

GENERAL BODY SYSTEM

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

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|
| | 07 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 07 | 07 | 05 | 07 | 04 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | | 07 |
| 400 PPM | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 1 |
| | 77 | 77 | 77 | 77 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 99 | 99 | 99 | 99 | 99 | 0 |
| | 67 | 67 | 68 | 69 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 0 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|-----|
| Epididymis Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 1.7 | | |
| Preputial Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 | | |
| Prostate Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 29 | 1.4 | | |
| Prostate Epithelium, Hyperplasia | 1 | | 2 | | | 1 | 1 | | 1 | | 1 | 2 | 1 | | 1 | 1 | 3 | | 2 | | 2 | 1 | 2 | 2 | 50 | 3 | 1.7 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Germinal Epithelium, Degeneration | | | | | 2 | | | | | | 4 | | | | | | | | | | | | | 50 | 3 | 3.3 | |
| Interstitial Cell, Hyperplasia | | | 3 | | 3 | | | | | 1 | | | | | | | | | | | 1 | | | 50 | 4 | 2.0 | |
| Rete Testes, Cyst | | | | | | | | | | | | | | 4 | | | | | | | | | | 50 | 1 | 4.0 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | 1 | | 1 | 1 | 4 | 4 | | 1 | | | | 1 | 4 | | 1 | 1 | | | 1 | 1 | | | 2 | 50 | 24 | 1.8 |
| Inflammation | | | | | | | | | | | | 1 | | | | | | | | | | | | 50 | 1 | 1.0 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | 50 | 1 | 2.0 |
| Lymph Node | | | | | | + | + | | | | | | | | | | | | | | | | | 50 | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | 2 | | | | | | | | | | | | | | | | | 50 | 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

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 Lab: BAT

| FISCHER 344 RATS MALE
400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|--|--|
| | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | | | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | |
| Lymph Node, Mesenteric Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | | | | | | 3 | | | | | | | | | 2 | | | | | | | | | | 6 2.0 | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Pigmentation, Hemosiderin | | | | 1 | | | | | | | | | 1 | | | | | | | | | 1 | | | 4 1.0 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | 4 | | | | | | | | | | | | | 1 4.0 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | | 3 | 46 3.2 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 3.0 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |

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

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|------------------------------|----------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|--|
| FISCHER 344 RATS MALE | 400 PPM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | |
| | | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 4 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 2 | 2 | 2 | 2 | |
| | | 2 | 2 | 2 | 2 | 4 | 3 | 2 | 2 | 2 | 2 | 5 | 2 | 7 | 2 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 6 | 6 | 3 | 6 | 4 | 6 | 7 | 7 | 3 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

Skeletal Muscle 1

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | 3 | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Mineralization | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 4 1.3 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | 1 | 1 | | | 2 | | | 1 | | | 1 | | | | | | 1 | 2 | | | 2 | | 11 1.3 |
| Alveolus, Infiltration Cellular, Histiocyte | | | 1 | | | 3 | | | | | 1 | | | | | | | | | | | | | | | 5 1.6 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation | | | 1 | | | | 3 | 1 | | | | | 2 | | | | | | | | | | | 3 | | 19 1.9 |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 3.0 |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | | 2 3.5 |

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

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|---|-----|-----|
| 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 | | | | |
| | | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 4 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 3.0 | |
| 400 PPM | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | * TOTALS | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | 1 | 3 | 3.0 |
| Harderian Gland Hyperplasia | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | | 2 | 1.5 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | |
| Nephropathy | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 2 | 3 | 1 | 1 | 3 | 1 | 3 | 2 | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 3 | 50 | 2.4 | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 | 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Transitional Epithelium, 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
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 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|
| | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 05 | 07 | 06 | 06 | 07 | 07 | 02 | 07 | 02 | 07 | 07 | 07 | 03 | | |
| 800 PPM | 27 | 75 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 34 | 65 | 27 | 16 | 96 | 27 | 27 | 99 | 22 | 27 | 27 | 27 | 27 | 73 | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 01 | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | X | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | X | | | | X | | X | X | | | X | | | | X | | X | X | X | X | | |
| Clear Cell Focus | | | X | X | X | | X | X | | X | X | | | | | | | | X | X | X | X | X | |
| Degeneration, Cystic | 1 | | | | 1 | | | | | | | | | | | 1 | | 1 | | 1 | | | | |
| Eosinophilic Focus | X | | X | | | X | X | X | X | X | | | | | | | | X | X | | X | | | |
| Fatty Change, Diffuse | | | | | | | | | | | | | 2 | | | | | | | | | | | 2 |
| Fibrosis | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 |
| Hepatodiaphragmatic Nodule | | | | | | | X | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 2 | 1 | | 2 | 1 | | 2 | 1 | 1 | 1 | 1 | |
| Mixed Cell Focus | | | X | | | | X | | X | | | | | | | | | | | | X | | | |
| Necrosis | | | | | | | | | | | | | | | | 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE

800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|--------------------|
| | 0
7 | 0
5 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
5 | 0
5 | 0
7 | 0
6 | 0
6 | 0
7 | 0
7 | 0
2 | 0
7 | 0
7 | 0
7 | 0
7 | 0
3 | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Bile Duct, Hyperplasia | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 2 | | 1 | | 1 | 1 | 2 | 1 | 1 | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Atrophy | | | | 1 | 1 | | 1 | 3 | 2 | | 1 | 1 | | | | | | | | 1 | | 1 | | | 1 | | |
| Acinus, Hyperplasia | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Duct, Inflammation | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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:
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TDMS No. 99013 - 05
 Test Type: Chronic PN
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

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

Inflammation

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epicardium, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 2 1 1 1 2 3 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1 1 1 1 1 1 |

GENERAL BODY SYSTEM

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

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|
| | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 05 | 07 | 06 | 06 | 07 | 07 | 02 | 07 | 02 | 07 | 07 | 03 | 07 | |
| 800 PPM | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | |
| | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Prostate Inflammation Epithelium, Hyperplasia | + | 3 | + | 2 | + | 2 | + | 2 | 1 | 2 | 2 | 2 | 2 | 4 | + | 2 | + | 1 | + | 2 | 2 | 1 | 2 | 3 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes Germinal Epithelium, Degeneration Interstitial Cell, Hyperplasia | + | + | + | + | + | 2 | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | 3 |
| | + | 2 | + | 1 | + | + | + | + | + | + | 1 | + | 4 | + | + | + | + | 3 | + | + | + | + | 2 | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow Hyperplasia Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | + | + | 2 | + | 1 | + | + | + | + | 3 | 4 | 3 | 1 | 2 | 1 | 2 | + | 1 | + | + | + | 3 | |
| | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Lymph Node Deep Cervical, Ectasia Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | + | + | | | | | + | | | 2 | |
| | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |

* .. Total animals 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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 2) Mild 4) Marked

TDMS No. 99013 - 05
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/F 344/N

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Styrene-acrylonitrile trimer
CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
Time Report Requested: 12:12:35
First Dose M/F: 05/12/05 / 05/13/05
Lab: BAT

| FISCHER 344 RATS MALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0727 | 0757 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0755 | 0755 | 0776 | 0766 | 0766 | 0776 | 0776 | 0776 | 0776 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | 2 | 3 | | | | | | | 2 | |
| Hyperplasia, Histiocytic | | | | | | | 2 | | | | | | | | | | | | | 4 | 2 | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| Necrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Pigmentation, Hemosiderin | | | 1 | | | | 1 | | | | | 2 | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | | 3 | 3 | 3 | 3 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | 3 | | | | | | | | 2 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
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I .. Insufficient tissue
M .. Missing tissue
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TDMS No. 99013 - 05
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 Lab: BAT

| FISCHER 344 RATS MALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|----------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|----|----|----|
| | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 05 | 07 | 06 | 06 | 07 | 07 | 02 | 07 | 02 | 02 | 07 | 07 | | | 07 | 07 | 07 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 6 | 7 | 7 | 2 | 7 | 2 | 2 | 2 | 7 | 7 | 7 | 7 | 7 | 3 | 7 |
| | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 6 | 2 | 1 | 9 | 2 | 2 | 9 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 4 | 5 | 7 | 7 | 4 | 7 | 7 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 | | | | | |

Necrosis 1

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atelectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | 1 | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 1 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 3 | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 3 | 1 | 3 | 3 | 2 | 1 | 3 | 2 | 4 | 3 | 4 | 2 | 2 | 2 | 3 | 2 | 2 | 4 | | | | | | | | | | | | |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| FISCHER 344 RATS MALE | | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 7 | 7 | 7 | 3 | |
| | | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 6 | 2 | 1 | 9 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 2 | 7 | |
| | | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 4 | 5 | 7 | 7 | 4 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | |
| 800 PPM | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 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 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 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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 Lab: BAT

| FISCHER 344 RATS MALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | |
| ANIMAL ID | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Basophilic Focus | X | X | | X | | | X | X | X | X | | X | | X | | | | | | | | X | X | X | | 25 | |
| Clear Cell Focus | X | X | X | X | | | X | X | X | X | | | | | | | X | X | X | | | | X | X | X | | 27 |
| Degeneration, Cystic | | | 1 | | | | | | | | | | 1 | 2 | | | 1 | | | | | 2 | | 1 | | 11 1.2 | |
| Eosinophilic Focus | X | X | | X | | | X | X | | X | X | | | | | X | X | X | | | | | | | | 22 | |
| Fatty Change, Diffuse | | | | | 3 | | | | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Hematopoietic Cell Proliferation | | | | | | | | 1 | | | | | | | | 1 | | | | | | | | | | 4 1.0 | |
| Hepatodiaphragmatic Nodule | | | X | | | | | | | | | | | | | | | | | | | X | | | | 3 | |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 38 1.1 | |
| Mixed Cell Focus | | | | X | | | X | X | X | | | | X | | X | | X | | | | | | X | | | 12 | |
| Necrosis | | | | | | 1 | | | | | | | 3 | | | | | | | | | | | | | 5 1.6 | |

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

+ .. Tissue examined microscopically

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I .. Insufficient tissue

M .. Missing tissue

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 Lab: BAT

| FISCHER 344 RATS MALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|
| | 0
7
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6 | 0
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6 | 0
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6 | 0
7
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6 | 0
6
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4 | 0
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3 | 0
7
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6 | 0
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6 | 0
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6 | 0
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3 | 0
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6 | 0
7
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6 | | | |
| ANIMAL ID | 0
0
1
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6 | 0
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7 | 0
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8 | 0
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1
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9 | 0
0
1
3
0 | 0
0
1
3
1 | 0
0
1
3
2 | 0
0
1
3
3 | 0
0
1
3
4 | 0
0
1
3
5 | 0
0
1
3
6 | 0
0
1
3
7 | 0
0
1
3
8 | 0
0
1
3
9 | 0
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0 | 0
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1 | 0
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2 | 0
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3 | 0
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4 | 0
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5 | 0
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6 | 0
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1
4
7 | 0
0
1
4
8 | 0
0
1
4
9 | 0
0
1
5
0 | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Bile Duct, Hyperplasia | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 42 | 1.4 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 7 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 1.6 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 26 | 1.4 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Duct, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Malformation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|

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

1-4 .. Lesion qualified as:
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TDMS No. 99013 - 05
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 Lab: BAT

| FISCHER 344 RATS MALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|-----|
| | 07
26 | 07
26 | 07
26 | 07
26 | 06
4 | 05
3 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | 07
2 | | | |
| ANIMAL ID | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | | | |
| | 00
26 | 00
27 | 00
28 | 00
29 | 00
30 | 00
31 | 00
32 | 00
33 | 00
34 | 00
35 | 00
36 | 00
37 | 00
38 | 00
39 | 00
40 | 00
41 | 00
42 | 00
43 | 00
44 | 00
45 | 00
46 | 00
47 | 00
48 | 00
49 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | | 2 | 2 | 3 | 3 | 2 | 48 | 2.3 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Epicardium, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hyperplasia | 1 | | | | | | | | 1 | | | | | | | | | | | | 1 | | | | 4 | 1.0 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | 1.0 |
| Necrosis | | | | | | | 3 | | | | | | 1 | | | | | | | | | | | | 2 | 2.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | 1 | | | | 3 | 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pars Distalis, Hyperplasia | | | | | 2 | | 1 | | | | | | | | 3 | | | | | | | | 1 | 1 | 13 | 1.6 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | 1 | | | | | | 1 | | | | | | | | | 3 | | 4 | | | | 1 | | 1 | 13 | 1.4 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----------|
| | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | |
| 800 PPM | 26 | 26 | 26 | 26 | 4 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | | |
| | | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | | |
| | | 67 | 67 | 68 | 69 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | | |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Preputial Gland Inflammation | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate Epithelium, Hyperplasia | 1 | 1 | | | | 1 | 1 | | | 3 | | 1 | | | | 1 | | | | 1 | 2 | | 22 9 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Testes Germinal Epithelium, Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Testes Interstitial Cell, Hyperplasia | | | | 4 | | | | | | | | | | | | | | | | | | | 4 8 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Bone Marrow Necrosis | 2 | | 1 | | | 3 | | | | | 1 | 1 | | 1 | | 1 | 1 | | 1 | | 2 | 3 | 1 |
| Lymph Node Deep Cervical, Ectasia | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Lymph Node Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | 1 1 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|
| | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | |
| ANIMAL ID | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | 00126 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | 4 | | | 4 2.8 | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | 1 | | | | | | | | | | | 6 2.2 | |
| Hyperplasia, Lymphoid | 2 | 2 | | | | | | | | | | | | | | | | | | | 2 | | | 4 2.3 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Pigmentation, Hemosiderin | | | | | | 1 | | | | | | | | | | | | | | | | | | 4 1.3 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 4 | 3 | 3 | 3 | 4 | | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | | 3 | 3 | 3 | 3 | 47 3.3 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | 1 | | | | | | | | | | | | | | | | | | 3 1.7 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | | 3 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
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TDMS No. 99013 - 05
 Test Type: Chronic PN
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
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 Lab: BAT

| FISCHER 344 RATS MALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | |
| ANIMAL ID | 001267 | 001268 | 001269 | 001270 | 001271 | 001272 | 001273 | 001274 | 001275 | 001276 | 001277 | 001278 | 001279 | 001280 | 001281 | 001282 | 001283 | 001284 | 001285 | 001286 | 001287 | 001288 | 001289 | 001290 | 001291 |

Necrosis 1 1.0

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atelectasis | | | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| Inflammation, Chronic Active | | | | | | | 1 | | | | | | | | | | | | | | 1 | | | | 4 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | 4 | | | | | | | 2 | | | | | | | | | | 5 1.8 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | 1 | | | | | | | | | | | | | | 4 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | 1 | | | 1 | 1 | 2 | 1 | 1 | | | 1 | 1 | | | 2 | | | 1 | 1 | 1 | 1 | 20 1.4 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | 4 | | 1 4.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | 4 | | | 1 4.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | | 2 | 2 | 2 | 2 | 3 | 48 2.4 |
| Cortex, Cyst | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| | 076 | 076 | 076 | 076 | 064 | 053 | 076 | 076 | 076 | 076 | 076 | 069 | 076 | 076 | 076 | 076 | 076 | 076 | 076 | 076 | 076 | 076 | 076 | 076 | |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 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
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 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|-----------------------|------------------|
| | 0
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7 | 0
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2
8 | 0
7
2
6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
1
5
1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
1
5
1 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | X | | X | X | | | | | | | | | | | | | | | X | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | 1 | | | | | 1 | | 1 | | | | 1 | | | | | | | | |
| Basophilic Focus | X | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | X | | X | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Degeneration, Cystic | 1 | | 2 | | | | 1 | | | | | | | | | | 1 | | | | | | 1 |
| Eosinophilic Focus | X | X | | X | | | | X | X | | X | X | | X | X | X | X | X | | X | X | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | X | | X | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | | 1 |
| Mixed Cell Focus | X | | X | | X | X | | X | X | | | | | X | X | | X | | X | X | | X | X |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Bile Duct, Hyperplasia | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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TDMS No. 99013 - 05
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 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|--|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) | |
| DAY ON TEST | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| FISCHER 344 RATS MALE | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| 1600 PPM | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

Bile Duct, Inflammation, Suppurative

Mesentery
 Fat, Necrosis

+
 2

Oral Mucosa
 Hyperplasia
 Inflammation, Chronic Active

Pancreas
 Acinus, Atrophy

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

Salivary Glands
 Duct, Cyst

+ +

Stomach, Forestomach
 Dysplasia
 Fibrosis
 Inflammation
 Ulcer
 Epithelium, Hyperplasia

+
 1
 2
 1
 1

Stomach, Glandular
 Erosion

+
 2

Tooth
 Malformation

+
 1

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
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 Lab: BAT

| FISCHER 344 RATS MALE | 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 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| 1600 PPM | 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 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

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

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

TDMS No. 99013 - 05
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Styrene-acrylonitrile trimer
CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
Time Report Requested: 12:12:35
First Dose M/F: 05/12/05 / 05/13/05
Lab: BAT

| FISCHER 344 RATS MALE

1600 PPM | 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 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 6 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Ectasia | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | 1 | | | | | 1 | 1 | | | | 1 | 1 | 1 | | | 1 | | 1 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | 1 | | 1 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 2 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | | 2 | 1 | 1 | 2 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | 3 | | | | | | | | 2 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Inflammation | | | | | | | | | | | | | | | | | | | | | + | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | |

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

1-4 .. Lesion qualified as:
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 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|---|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|-----------------------|--------|
| | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
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7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | | | 0
7 |
| 1600 PPM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
1
5
1 | |
| Hematopoietic Cell Proliferation | 1 | | | | | 2 | | | | | 3 | | | | | | | | | | | | | | | | | |
| Hyperplasia, Histiocytic | | | | | | 3 | | | | | 3 | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | 1 | | | | | 1 | | | | | | | | | | 1 | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 4 | | | 3 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst Epithelial Inclusion | | | | | | X | | | | | | | | | | X | | | | | | | | | | | | |
| Cyst Epithelial Inclusion, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Gliosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|---|
| DAY ON TEST | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 7 | |
| FISCHER 344 RATS MALE | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | |
| 1600 PPM | | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 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 | 0 | |
| 0 | 0 | 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 | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) | |

Spinal Cord

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
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TDMS No. 99013 - 05
 Test Type: Chronic PN
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 CAS Number: SANTRIMER2

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 Lab: BAT

| FISCHER 344 RATS MALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|-----------------------|--|
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7 | 0
7
2
8 | 0
7
2
6 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
1
5
1 | |
| Pelvis, Transitional Epithelium, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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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 CAS Number: SANTRIMER2

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 Lab: BAT

| FISCHER 344 RATS MALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 6 | 7 | 7 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 5 |
| | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 0 | 7 | 7 | 7 | 1 | 7 | 7 | 6 | 4 | 6 | 9 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | X | | | | | | | | | 5 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | 1 | | | | | | | | 9 1.1 |
| Basophilic Focus | X | X | X | X | X | | | | X | | X | X | X | X | | | | | | X | X | | 34 |
| Clear Cell Focus | X | | X | X | X | | | | X | X | X | X | | | X | X | X | | X | X | | X | 33 |
| Degeneration, Cystic | | | | 1 | 1 | | | | | | | | | | | | | | 1 | | | | 9 1.1 |
| Eosinophilic Focus | X | X | X | | X | | X | X | X | X | | X | X | | X | X | X | | X | X | | X | 33 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 43 1.0 |
| Mixed Cell Focus | X | | | X | X | | | | | | | X | X | | | | | X | X | | | | 20 |
| Necrosis | | | | | | | | | 1 | | | | | | | | | | | 1 | | | 4 1.5 |
| Bile Duct, Hyperplasia | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 48 1.3 |

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

1-4 .. Lesion qualified as:
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| FISCHER 344 RATS MALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|----|-----|-----|-----|
| | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | | 0726 | | | | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 00200 | | | | | |
| Bile Duct, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | |
| Mesentery
Fat, Necrosis | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | 1.8 |
| Oral Mucosa
Hyperplasia
Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 4.0 |
| Pancreas
Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | 28 | 1.4 | |
| Salivary Glands
Duct, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | 1 | 4.0 | |
| Stomach, Forestomach
Dysplasia
Fibrosis
Inflammation
Ulcer
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | 1 | 1.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 | |
| Stomach, Glandular
Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | 1 | 2.0 | |
| Tooth
Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 5 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | | |

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | |
| ANIMAL ID | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 1 |
| Atrium, Thrombosis | | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 49 2.1
1 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | M | M | M | M | + | + | 37 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Hyperplasia | 1 | | | | | | 1 | | | | 2 | 1 | | | | | | | 2 | | | 1 | | | 13 1.4 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | | 1 | | 1 | | | 1 | | | 1 | | 1 | | | | 1 | 2 | | | | 1 | 1 | | | 14 1.2 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|--------|
| | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | | 0726 | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation | | | | | | | | | | | | | 3 | | | | | | | | | 1 3.0 | |
| Duct, Ectasia | | | 4 | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | 2 | 1 | 1 | 1 | | 1 | | | 1 | 1 | | 1 | 2 | | 1 | | 18 1.1 | |
| Epithelium, Hyperplasia | | | | 1 | | | | | 1 | | | | | | | | 1 | 1 | | | | 6 1.0 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 2 | 1 | | 1 | | | 1 | | 2 | | 1 | | 1 | 1 | 3 | | 1 | | 1 | 4 | 2 | 4 | 37 1.6 |
| Inflammation, Granulomatous | | | | | | | | | | | | 1 | | | | | | | | | | 3 2.0 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Pancreatic, Inflammation | | | | | | | | | | | | | 1 | | | | | | | | + | 1 1.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Spleen | | | | | | | | | | | | X | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1-4 .. Lesion qualified as:
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TDMS No. 99013 - 05
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS MALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|-------|
| | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | 076 | 072 | | | |
| ANIMAL ID | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | 00176 | 00172 | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 2.0 | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Hyperplasia, Lymphoid | | | | | 2 | | | | 2 | | | | | | 2 | | | | | | | | | | | | 3 2.0 |
| Pigmentation, Hemosiderin | | | | | | | | 1 | | | | | | | | | | | 1 | | | | | | | | 5 1.0 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | | 49 3.2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | 2 | 1 | | | | | 1 | | | | | | 3 1.3 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Cyst Epithelial Inclusion, Multifocal | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Epidermis, Hyperkeratosis | | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Gliosis, Focal | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 | |
| Infiltration Cellular, Mononuclear Cell | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 99013 - 05
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Styrene-acrylonitrile trimer
CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
Time Report Requested: 12:12:35
First Dose M/F: 05/12/05 / 05/13/05
Lab: BAT

| FISCHER 344 RATS MALE
1600 PPM | DAY ON TEST | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 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 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | * TOTALS |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 9 | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Spinal Cord

+ 1

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Lung | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrosis | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | 1.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | 2.0 | |
| Alveolar Epithelium, Hyperplasia | | | | | | 1 | | | | | 2 | | | 2 | | | | | | | | | | 7 | 1.4 | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 | 1.0 | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | 3 | 2 | | | | 1 | | | 1 | | 1 | | | | | 2 | 1 | | | | | 19 | 1.4 |
| Olfactory Epithelium, Metaplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Respiratory Epithelium, Hyperplasia | | | | | | 1 | | | | | | | | | 2 | | | | | | | | 1 | | 5 | 1.4 |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | 2 | | | | | | | 2 | 2.5 |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Degeneration | | | | | | | | | | | | | | | | | | 3 | | | | | | | 1 | 3.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 1.0 | |
| Nephropathy | | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 49 | 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|---|-------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|
| FISCHER 344 RATS MALE

1600 PPM | DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 5 | |
| | | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 2 | 8 | 2 | 5 | |
| | | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 0 | 7 | 7 | 7 | 1 | 7 | 7 | 6 | 4 | 6 | 6 | 9 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |

*** 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:
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TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| 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 | | |
| Clear Cell Focus | | | | | | | | | | | X | X | | | | | | | | | | | | | | | |
| Eosinophilic Focus | X | X | | | X | X | | X | X | | | | | | | | | X | | X | | | X | | X | | |
| Fatty Change, Diffuse
Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | 1 | | | | | | | | | 1 | | | | | | | | | 1 |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | 1 | 1 | 1 | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | 1 | | | | | | | | | 1 | | | | | | | | | 1 |

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

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

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

Oval Cell, Hyperplasia

Mesentery + + +
 Fat, Necrosis 2 2 4

Oral Mucosa +
 Cyst
 Inflammation

Pancreas +
 Acinus, Atrophy 1
 Acinus, Hyperplasia

Salivary Glands +
 Atrophy

Stomach, Forestomach +
 Inflammation
 Ulcer
 Epithelium, Hyperplasia

Stomach, Glandular +
 Erosion
 Inflammation

Tooth + +
 Malformation 1 1

CARDIOVASCULAR SYSTEM

Blood Vessel +

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

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

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration, Cystic | | 1 | | | 1 | | | | | | | | 1 | 1 | 1 | | | | | | | | | | 1 | 2 |
| Hyperplasia | | | | | | 1 | | 1 | | | | | 1 | 1 | 1 | | | | | | | 1 | 1 | 1 | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | 1 | | | | | | 1 | 1 | 3 | | 2 | | 3 | 3 | | 2 | | 2 | | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | 2 | | 3 | 1 | | | 1 | | 1 | | 4 | | | | | | | | 2 | | 1 | | | |

GENERAL BODY SYSTEM

NONE

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

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

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

TDMS No. 99013 - 05
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Styrene-acrylonitrile trimer
CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
Time Report Requested: 12:12:35
First Dose M/F: 05/12/05 / 05/13/05
Lab: BAT

| FISCHER 344 RATS FEMALE
0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
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2 |

Pigmentation, Hemosiderin

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

Thymus
Atrophy

+
3 3

INTEGUMENTARY SYSTEM

Mammary Gland
Galactocele
Hyperplasia
Inflammation

+
2 2

Skin

+ +

MUSCULOSKELETAL SYSTEM

Bone
Osteopetrosis

+ +

NERVOUS SYSTEM

Brain
Gliosis, Focal
Hemorrhage
Infiltration Cellular, Mononuclear Cell
Mineralization
Pigmentation, Focal
Neuron, Depletion Cellular
White Matter, Vacuolization Cytoplasmic

+
1 1 1 1 1

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010

Time Report Requested: 12:12:35

First Dose M/F: 05/12/05 / 05/13/05

Lab: BAT

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

0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 078 | 078 | 075 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 075 | 075 | 077 | 076 | 077 | 076 | 077 | | 077 | 077 | 077 |
| ANIMAL ID | | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | females
(cont...) |

Inflammation, Chronic Active
 Transitional Epithelium, 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | 07
27 | 07
27 | 07
27 | 07
27 | 05
66 | 07
28 | 07
28 | 07
28 | 07
28 | 07
28 | 07
28 | 07
28 | 07
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28 | 07
28 | 07
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28 | 07
28 | | 06
92 | 07
27 | |
| ANIMAL ID | 00
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66 | 00
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77 | 00
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88 | 00
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99 | 00
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77 | 00
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88 | 00
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99 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
5 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | 2 | | | | 3 | | | | | | | 1 | 1 | | | | | | | 5 1.8 |
| 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 | 45 |
| Clear Cell Focus | X | | | | X | | | X | | | | | | | X | | | | X | | | | | X | 9 |
| Eosinophilic Focus | X | X | X | X | | | | X | X | | | X | | X | | | X | X | X | | | | | X | 23 |
| Fatty Change, Diffuse | | | | | 1 | | | | | | | | | 3 | | | | | | | | 2 | | | 3 2.0 |
| Fibrosis | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 1.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | X | | X | | | | | | | X | | | | | | | | | | 4 |
| Inflammation, Chronic Active | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 41 1.0 |
| Mixed Cell Focus | | | | | | | X | | | | | | | | X | | | X | | | X | | | | 4 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 2.0 |
| Bile Duct, Hyperplasia | | | 2 | | | | | | 1 | 1 | 1 | | | | 1 | | | | | | 1 | 1 | | 1 | 12 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|---|-----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | | | |
| | 2 | 2 | 2 | 2 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 9 | 2 | | | |
| | 7 | 7 | 7 | 7 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 2 | 7 | 7 | 7 | 7 | 1 | 1 | 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 | | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 11 | | | |
| Fat, Necrosis | + | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 1.8 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 16 | 1.1 | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.7 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | |
| Malformation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

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 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| | 0
7
2
7 | 0
7
2
7 | 0
7
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7 | 0
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7 | 0
5
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6 | 0
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8 | 0
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8 | 0
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8 | | 0
6
9
1 | 0
7
2
7 | | | |
| ANIMAL ID | 0
0
2
2
6 | 0
0
2
2
7 | 0
0
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8 | 0
0
2
2
9 | 0
0
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2 | 0
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5 | 0
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6 | 0
0
4
4
7 | 0
0
4
4
8 | 0
0
4
4
9 | 0
0
5
5
0 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 47 1.7 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Degeneration, Cystic | | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | 6 1.2 | |
| Hyperplasia | | 1 | | | | | | | | 1 | | | | | 1 | | | 2 | | | | | 3 | | 14 1.2 | |
| Hypertrophy | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | 3 | | | | | | | | | | | 1 3.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | 2 | | | | | | | | | | | 1 | | | | | | | | | 3 1.3 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Pars Distalis, Angiectasis | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Pars Distalis, Hyperplasia | 2 | | 1 | | | | | 2 | 2 | 2 | 3 | | | 3 | 1 | 4 | | | 2 | 2 | | 1 | 2 | | 24 2.0 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | 1 | 1 | | 1 | | 1 | 2 | | 1 | 2 | 1 | 1 | 4 | 1 | 1 | 3 | | 1 | 1 | | 1 | 1 | | | 25 1.6 | |

GENERAL BODY SYSTEM

NONE

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

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

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

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | 4 2.3 | |
| Cyst | 4 | | | 4 | | | | | | | | | | | | | | | | | | | | | 3 3.3 |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 1.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 1 | 3 | | | | | 1 | | | | | 1 | | | 1 | | | | | 1 | 1 | | | 16 1.8 | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | + | 2 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia, Histiocytic | | | | | | | | | | | | 4 | | | | | | | | | | | | | 2 3.5 |

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

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|----------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|
| | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 27 | 27 | 27 | 27 | 26 | 28 | 22 | 28 | 22 | 28 | 22 | 28 | 22 | 28 | 22 | 27 | 22 | 27 | 27 | 27 | 20 | 29 |
| | 27 | 27 | 27 | 27 | 26 | 28 | 22 | 28 | 22 | 28 | 22 | 28 | 22 | 28 | 22 | 27 | 22 | 27 | 27 | 27 | 21 | 29 |
| | 22 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 24 | 24 | 25 |
| | 67 | 67 | 68 | 69 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|
| Pigmentation, Hemosiderin | | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 43 | 1.1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 46 | 3.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | 4 | | | 1 | 4.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Inflammation | | | | | | | | 4 | | | | | | | | | | | | | | 4 | | | | 2 | 4.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 | 3.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Gliosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hemorrhage | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 | 1.0 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Pigmentation, Focal | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | 1.0 |
| Neuron, Depletion Cellular | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| White Matter, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 1.0 |

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
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 2) Mild 4) Marked

TDMS No. 99013 - 05
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 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
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 Lab: BAT

| FISCHER 344 RATS FEMALE
0 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|--------|--|
| | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | | 07 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 27 | 27 | 27 | 27 | 26 | 28 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 20 | 09 | | |
| | 7 | 7 | 7 | 7 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 2 | 7 | 7 | 7 | 7 | 1 | 1 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atelectasis | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | 1 | | | 1 | | | 1 | | | 2 | | 2 | | 1 | | 15 1.1 | |
| Alveolus, Infiltration Cellular, Histiocyte | | | 1 | | | 1 | | 1 | | | | | 1 | | | | 1 | 1 | | | 1 | 16 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | 1 | | | | | | | | | 1 | | | | | | | 1 | 1 | | | | 8 1.3 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | 4 | 2 | 2 3.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | |
| Infarct | | | | | | | 2 | | | 3 | | | | | | | | | | | | 3 2.3 | |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | 1 | | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 41 1.2 | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Pelvis, Inflammation | | | | | | | 2 | | | | 2 | | | | | | | | | | | 2 2.0 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

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

Inflammation, Chronic Active
Transitional Epithelium, Hyperplasia

1

1 1.0
1 1.0

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

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | |
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ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | 1 | | 2 | | | 1 | | | | | | | | | | | | | 1 | | | | | |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | | | | X | X | | | | | | | | | | | | | | | | X | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | X | | X | | X | X | X | X | X | | | | X | | X | | | | | X | X | | | | | X |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | X | | | | X | | | X | | X | | X | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| ANIMAL ID | | 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | |
| | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 4 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 7 | 8 | 7 | 7 | |
| 400 PPM | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 9 | 7 | 7 | 7 | 7 | 7 | 8 | 6 | 8 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |
| females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | 1 | 2 | | | 1 | 1 | 1 | | | | | | | 1 | | 1 | | | | | | 1 | 1 | | |
| Mesentery Fat, Necrosis | | | | | + | | | | | | | | | | + | | | | | | | | | | + | |
| | | | | | 3 | | | 1 | | | | | | | 1 | | | | | | | | | | 2 | |
| Pancreas Inflammation | | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | + | |
| | | | | | | | | | | | | | | | 2 | | | | | | | | | | + | |
| Metaplasia, Hepatocyte Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| | | 3 | | | | | 1 | 1 | | | | | | | | | | | | | | | | 1 | | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach Inflammation | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Ulcer Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| | | | | | | | | | | | 1 | | | | | | | | | | | | | | 3 | |
| | | | | | | | | | | | | | | | | | | | | 1 | | | | | 2 | |
| Stomach, Glandular Ulcer | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Tooth Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Heart Cardiomyopathy | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 1 | 1 | 2 | 2 | 2 | 1 | 4 | 2 | 1 | 1 | 2 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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 1) Minimal 3) Moderate
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TDMS No. 99013 - 05
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 Species/Strain: RATS/F 344/N

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 CAS Number: SANTRIMER2

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 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | |
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| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | 1 | | 1 | | | 1 | | | | | | | | | | | | 1 | | | | | | | 2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Thrombosis | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | 2 | 1 | 3 | | 4 | | 1 | | | | 3 | 2 | | | 1 | 1 | | 2 | | | | | 2 | 3 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | 3 | 2 | 1 | 1 | 3 | 1 | | 1 | 1 | | 1 | 3 | | | | | | 1 | 1 | | | | | | 1 | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Duct, Cyst | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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| FISCHER 344 RATS FEMALE
400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------------------|----|----|----|
| | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | | | 07 | 07 | 06 |
| | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 26 | 26 | 27 | 27 | 27 | 27 | 20 | 27 | 27 | 27 | 27 | 27 | 28 | 26 | 27 | 27 |
| | 51 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
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| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Cyst | 2 | 4 | | | | | | 4 | | | | | | | | | | | | 1 | | | | 4 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | 1 | | | | 1 | | | 1 | | | 2 | | | | | | |
| Venule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | 1 | | | | | 1 | 2 | 1 | | 3 | | 1 | 1 | | | | 1 | | | 1 | 4 | 4 | |
| Myelofibrosis | | | 4 | | | | | | | | | | | | | | | | | | | | | 3 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | + |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Spleen | | | | | | | | | | | | | | | | | X | | | | | | | |
| Hematopoietic Cell Proliferation | 1 | | 3 | | | | | | | | | | 1 | | | | | 1 | | | | 1 | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | 2 | 2 | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 400 PPM | 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...) |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | | | 7 | 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 4 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 7 | 7 | 8 | 7 | 8 | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |

Pigmentation, Hemosiderin Lymphoid Follicle, Atrophy 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1

Thymus Atrophy Hyperplasia, Lymphoid +
 3

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia +
 3

Skin +

MUSCULOSKELETAL SYSTEM

Bone +

NERVOUS SYSTEM

Brain Hemorrhage Necrosis +
 2

Peripheral Nerve +

Spinal Cord +

RESPIRATORY SYSTEM

Lung Foreign Body +

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

TDMS No. 99013 - 05
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
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 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

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

Inflammation, Chronic Active
 Alveolar Epithelium, Hyperplasia
 Alveolus, Infiltration Cellular, Histiocyte

1
 1 1 1 1 2 1
 1 1

Nose
 Foreign Body
 Inflammation

+
 X
 1 2 1 1 1

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye
 Lens, Cataract
 Retina, Degeneration
 Retina, Gliosis

+
 4
 4 1

Harderian Gland

+ +

Zymbal's Gland

URINARY SYSTEM

Kidney
 Accumulation, Hyaline Droplet
 Infarct
 Nephropathy
 Papilla, Necrosis
 Pelvis, Inflammation

+
 1 1 1 2 1 1 1 1 1 1 2 2 1 2 1 1 2 1 1 1 1 1 2
 2 1 1 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
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 Styrene-acrylonitrile trimer
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 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--|
| | 078 | 067 | 077 | 076 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | | |
| Bile Duct, Hyperplasia | | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | | | | | | | | 19 1.1 | |
| Mesentery Fat, Necrosis | | | | | | | + | | | | | | + | | | | | | | | | + | | | 7 6 1.8 | |
| Pancreas Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 50 1 2.0 | |
| Pancreas Metaplasia, Hepatocyte Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Pancreas Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.3 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Stomach, Forestomach Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 50 2 3.0 | |
| Stomach, Forestomach Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Stomach, Forestomach Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 | |
| Stomach, Glandular Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 50 1 1.0 | |
| Stomach, Glandular Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Tooth Malformation | | | | | | | | | | | | | | | | | | | | | | | | | 5 5 1.0 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Heart Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | 50 49 1.8 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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 Lab: BAT

| FISCHER 344 RATS FEMALE
400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|--------|
| | 078 | 067 | 077 | 076 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 076 | 077 | 077 | 077 | 077 | 077 | 077 | 076 | 066 | | 077 | 077 | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Degeneration, Cystic | | | 2 | | | | 1 | | 2 | | | | | | 1 | | 2 | 2 | | | | | | | 9 1.6 |
| Hyperplasia | 1 | | | | | | | 2 | | | | | | 1 | 1 | | | | | | | | | | 9 1.2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Vacuolization Cytoplasmic | | | | | | | 2 | | | | | | | | | | | | | | | | | | 3 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | 1 | | | | | | 1 | | | | | | | | | | | | 2 1.0 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | 4 | | 1 4.0 |
| Pars Distalis, Hyperplasia | 2 | 2 | | | | 3 | | 1 | | | 2 | | | | 2 | | 4 | | 2 | | | | | 3 | 21 2.2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | | | | 3 | | 2 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | | 4 | 2 | 1 | 2 | | | 3 | | 27 1.6 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | 2 | | 3 | | | | | | | | | | | | | | | 4 3.0 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|------|
| | 078 | 067 | 077 | 076 | 075 | 072 | 071 | 070 | 068 | 067 | 066 | 065 | 064 | 063 | 062 | 061 | 060 | 059 | 058 | 057 | | 056 | 055 | 054 | 053 | 052 | 051 |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | 0101 | 0102 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | 4 | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 4 |
| Metaplasia, Squamous | 3 | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 4 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 7 |
| Venule, Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 3 | 3 | 2 | | | | | | | 1 | | | | | | 1 | 1 | 1 | 2 | | | | | | | | 25 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hematopoietic Cell Proliferation | 1 | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | 8 |
| Hyperplasia, Histiocytic | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 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
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TDMS No. 99013 - 05
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----|-----|
| | 078 | 067 | 077 | 076 | 075 | 072 | 077 | 077 | 077 | 077 | 077 | 077 | 076 | 077 | 077 | 077 | 077 | 077 | 077 | 076 | 066 | 067 | 077 | | | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | | | |
| Pigmentation, Hemosiderin | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 47 | 1.0 | |
| Lymphoid Follicle, Atrophy | | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | 3 | 3 | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 46 | 3.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 | 3.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 2 | 2.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
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| FISCHER 344 RATS FEMALE
400 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|----------|
| | 078 | 067 | 077 | 076 | 075 | 072 | 071 | 078 | 078 | 078 | 077 | 077 | 076 | 077 | 077 | 078 | 078 | 077 | 077 | 076 | 076 | 077 | 077 | | |
| ANIMAL ID | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | | | |
| Inflammation, Chronic Active | 1 | | | | | | 2 | | | | | | | | | | | 1 | | | 1 | | | 5 1.2 | |
| Alveolar Epithelium, Hyperplasia | 1 | | | 1 | | | | | | | 1 | | | 1 | | | | | 2 | | 2 | | | 13 1.3 | |
| Alveolus, Infiltration Cellular, Histiocyte | | 2 | 1 | | | | | | | 1 | 1 | | | | | | | | | | 1 | 1 | 1 | 12 1.1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | X | | | 2 | |
| Inflammation | 2 | | | | | | 2 | | | | 1 | | | | | | 2 | 1 | | | | | 1 | 11 1.4 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 3.0 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 2.0 | |
| Retina, Gliosis | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Zymbal's Gland | | | | | | | + | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | 3 | | | | | | | | | | | 1 3.0 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Nephropathy | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | | 3 | 1 | | 2 | 2 | 1 | | 1 | 1 | 1 | 42 1.3 | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0617 | 0477 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0776 | 0676 | 0776 | 0577 | 0777 | 0577 | 0777 | 0577 | 0777 | 0777 | 0676 | 0776 | 0676 | | |
| 800 PPM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0030 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0030 | |
| | 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 | 0030 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 0030 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | | | | | 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 |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | |
| Mixed Cell Focus | | | | | | | | | | | X | | | X | | | | | | | X | | | |
| Necrosis | | | | | | | | | | | | | | | | | 2 | | | | 1 | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 800 PPM | | 6 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 6 | 7 | |
| | | 1 | 9 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 6 | 2 | 6 | 2 | 4 | 2 | 5 | 2 | 8 | 5 | 2 | 9 | 8 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 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 | 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 |
| Bile Duct, Hyperplasia | | | | | 2 | | | 1 | 1 | | | 1 | 1 | | | | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Metaplasia, Hepatocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 1 | 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
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 99013 - 05
 Test Type: Chronic PN
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
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 Lab: BAT

| FISCHER 344 RATS FEMALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0617 | 0477 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0776 | 0676 | 0776 | 0577 | 0577 | 0777 | 0577 | 0777 | 0577 | 0777 | 0676 | 0776 | 0676 | | |
| | 197 | 201 | 227 | 227 | 227 | 227 | 227 | 227 | 227 | 227 | 261 | 226 | 226 | 226 | 267 | 247 | 227 | 258 | 228 | 228 | 253 | 228 | 253 | 228 | 253 | | |
| | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | | |
| | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | 330 | | |
| | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 000 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 002 | 002 | 002 | 002 | 002 | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adrenal Cortex Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Hyperplasia | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Adrenal Cortex Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland Pars Distalis, Hyperplasia | | | | | 4 | | 3 | 3 | 4 | 1 | | 1 | | 2 | | | 2 | | 4 | | 2 | | | 1 | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 4 | | 1 | | | 2 | 4 | | 3 | | 1 | | 1 | 2 | 2 | 2 | 1 | | 1 | | 1 | 1 | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
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 Species/Strain: RATS/F 344/N

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 Lab: BAT

| FISCHER 344 RATS FEMALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|
| | 0617 | 0477 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0776 | 0676 | 0776 | 0577 | 0777 | 0777 | 0577 | 0777 | | | 0777 | 0676 | 0776 |
| | 0 | 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 | 9 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 2 | 6 | 2 | 6 | 2 | 4 | 5 | 2 | 5 | 2 | 5 | 2 | 9 |
| | 7 | 0 | 7 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 7 | 2 | 7 | 8 | 7 | 7 | 8 | 8 | 8 | 3 | 8 | 8 | 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 |
| | 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 | 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 |

Hyperplasia

3

Ovary

Atrophy
Cyst

+
 1 4
 4

Uterus

Decidual Reaction
Inflammation
Cervix, Cyst
Endometrium, Hyperplasia, Cystic

+
 2
 2

HEMATOPOIETIC SYSTEM

Bone Marrow

Atrophy
Hyperplasia
Inflammation, Granulomatous

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

Lymph Node

Deep Cervical, Ectasia

Lymph Node, Mandibular

M M

Lymph Node, Mesenteric

Atrophy
Hyperplasia, Lymphoid

+
 4 3

Spleen

Hematopoietic Cell Proliferation
Hyperplasia, Histiocytic

+
 1
 3

* .. 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
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 Lab: BAT

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|--|
| 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 | | | | | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 4 | 5 | 7 | 7 | 7 | | 7 | 7 | 7 | | |
| 800 PPM | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 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 | * TOTALS | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | 2 | 2 | 2 | 2 | 3 | 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 | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | 1 | 1 | | | | 1 | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | | X | X | X | X | X | X | X | 43 | |
| Clear Cell Focus | | X | | X | | | | | | | | | X | X | | | | | | | | | X | | | | 9 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Eosinophilic Focus | X | X | | | X | X | X | X | X | X | X | | | X | | | | | | X | | | X | X | X | | 30 | |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Hepatodiaphragmatic Nodule | | | X | | | | | X | | | | | | | | | | X | | | | | X | | | | 5 | |
| Inflammation, Chronic Active | 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 | 43 | 1.0 |
| Mixed Cell Focus | X | | | | | X | | | | | | | X | | | | | | | | | | X | | | | 7 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 3 | 1.3 |
| Tension Lipidosis | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

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

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|-----|
| | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | 0728 | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 20 | 1.1 |
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | 11 | 1.5 |
| Pancreas
Metaplasia, Hepatocyte
Acinus, Atrophy
Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | 50 | 1.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Stomach, Forestomach
Inflammation
Ulcer
Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 50 | 3.7 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Tongue
Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Tooth
Malformation | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Heart
Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | 50 | 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

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

TDMS No. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
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Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|
| | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | 07 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 32 | 32 | 32 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | |
| | 67 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | 3 | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 | 2.0 |
| Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | | 3 | 1.0 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 | 1.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | 3 | | | | | | | 1 | 3.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 49 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | 1 | | 2 | | | | | | | | | 2 | | | | | | | | | | 3 | 1.7 |
| Pars Distalis, Hyperplasia | 2 | | 2 | | | | 3 | | 2 | | | | 4 | | 1 | | | 2 | 1 | | 3 | 4 | | 21 | 2.4 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | | | 2 | | | 1 | | | | 2 | 1 | | 26 | 1.6 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

TDMS No. 99013 - 05
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 Species/Strain: RATS/F 344/N

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 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

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 Lab: BAT

| FISCHER 344 RATS FEMALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | 078 | | 078 | 078 | | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|-----|-----|---|---|-----|----|--|
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | 3 | | | 3 | 2.7 | | | | | | | | | |
| Cyst | 4 | | | | | | 3 | 2 | | | | | | 3 | | | | | 4 | 6 | 3.3 | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Decidual Reaction | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | | | | | | |
| Cervix, Cyst | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | | | | | |
| Endometrium, Hyperplasia, Cystic | 3 | | | | | | | | | | | | | 1 | 1 | | | | | 1 | 5 | 1.6 | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|-----|---|-----|-----|-----|-----|-----|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | 2 | | | 1 | 2.0 | | | | | | | | | |
| Hyperplasia | 1 | 2 | | | 3 | 1 | 1 | | | 1 | 1 | | | 1 | | | | 4 | 1 | | | 1 | 1 | 25 | 2.0 | | |
| Inflammation, Granulomatous | | | 1 | | | | | | | | 1 | | | | | | | | | | | 2 | 6 | 1.2 | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Deep Cervical, Ectasia | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | 2 | | | 2 | 3.5 | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | 1 | | | 1 | 2.0 | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | 1 | 1 | | | | | 1 | | | | 1 | | | 2 | | | 1 | 7 | 1.1 | | | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | 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. 99013 - 05
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
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Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----|-----|-----|
| | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | | 0728 | | | | | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | | | |
| Pigmentation, Hemosiderin
Lymphoid Follicle, Atrophy | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 42 | 1.2 | |
| | | | | | | | | | | | | | | | 4 | | | | | | | | | | | 3 | 4.0 | |
| Thymus
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 50 | 3.1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skeletal Muscle | + | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain
Hemorrhage
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung
Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |

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

| FISCHER 344 RATS FEMALE
800 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|--|
| | 0
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| ANIMAL ID | 0
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6 | 0
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7 | 0
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8 | 0
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9 | 0
0
3
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0 | 0
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8 | 0
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9 | 0
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6 | 0
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3
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7 | 0
0
3
4
8 | 0
0
3
4
9 | | |
| Inflammation, Chronic Active | | | | | 1 | | | | | | | | | | | | | | | | | | | | 3 | |
| Alveolar Epithelium, Hyperplasia | | 1 | | 1 | | | | 4 | | 2 | | | | | | | | 1 | 2 | | | | | | 9 | |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | | 1 | 1 | | | 1 | | | | | | | | | | | | | | 1 | | | 11 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | 2 | 1 | | | | | | | 1 | 1 | | | | | | | | | | 6 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lens, Cataract | | | | | | | | | | | | 3 | | | | | | 2 | | | | | | 2 | | |
| Retina, Degeneration | | | | | | | | | | | 4 | | | | | | | | | | | | | 2 | | |
| Retina, Gliosis | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infarct | | | | | 3 | | | | | | | | | | | | | | | | | | | 1 | | |
| Nephropathy | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 40 | | |
| Pelvis, Inflammation | | | | | 2 | | | | | | | | | | | | | | | | | | | 2 | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | | 2 | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic Active | | 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | |
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ALIMENTARY SYSTEM

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

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

| FISCHER 344 RATS FEMALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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Oval Cell, Hyperplasia

Mesentery
 Fat, Necrosis

+ +
 2 1 2

Oral Mucosa
 Hyperplasia

+
 4

Pancreas
 Acinus, Atrophy

+
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Salivary Glands

+ +

Stomach, Forestomach
 Inflammation

+
 1

Stomach, Glandular

+ +

Tooth
 Malformation

+
 1

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart
 Cardiomyopathy

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

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

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| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
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| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Adrenal Medulla
Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | + |
| Islets, Pancreatic | | | | | | | | | | | | | | | | | | | | | | | | + |
| Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | + M M + |
| Pituitary Gland
Cyst | | | | | | | | | | | | | | | | | | | | | | | | +
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| Pars Distalis, Angiectasis
Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 2 2 1 4 2 2 1 2 1 1 |
| Thyroid Gland
C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | +
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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
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| Clitoral Gland
Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | +
3 |
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| FISCHER 344 RATS FEMALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Atrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Cyst | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Adenomatous | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 1 1 3 1 1 1 1 1 1 1 1 1 3 3 4 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Styrene-acrylonitrile trimer
CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
Time Report Requested: 12:12:35
First Dose M/F: 05/12/05 / 05/13/05
Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| FISCHER 344 RATS FEMALE | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1600 PPM | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| ANIMAL ID | 8 | 8 | 8 | 8 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | females
(cont...) |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Infarct | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | | 1 | | | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 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 |

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fracture | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | 1 | 1 | | 1 | | 1 | | 2 | | 1 | | | | | | 1 | | | | 1 | | 1 | 1 |
| Alveolar Epithelium, 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
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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

TDMS No. 99013 - 05
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Styrene-acrylonitrile trimer
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Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| DAY ON TEST | | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| FISCHER 344 RATS FEMALE | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 1600 PPM | | 8 | 8 | 8 | 8 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | females
(cont...) |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | 1 | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | | | | | | | | | | | | | | | | | |
| Retina, Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 4 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | | |
| Papilla, Necrosis | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

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 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | |
| | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 2 | |
| | 8 | 8 | 8 | 8 | 0 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 7 | 7 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | 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 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Transitional Epithelium, Hyperplasia | | | 1 | | 1 | | | | | 2 | | | | | 4 | | | | | | | | 1 | 4 | 2 |
| Transitional Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| FISCHER 344 RATS FEMALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|
| | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 07 | | 07 | 07 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 37 | 37 | 37 | 37 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |
| | 67 | 67 | 68 | 69 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum Hemorrhage | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 |
| Intestine Large, Colon Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
4 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | 1 | | | | | | | | | | | | | | | | 2 | | | | 3 | 4 | | 5 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 | 45 |
| Clear Cell Focus | | | | | | | X | | | | X | | | | | X | | | X | | X | | | 6 |
| Eosinophilic Focus | X | | X | | X | X | | | X | X | | | X | | X | | X | X | X | X | X | | X | 29 |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hepatodiaphragmatic Nodule | | X | X | | | | | | X | | | | X | | | | | | | | | X | | 11 |
| Inflammation, Chronic Active | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 47 1.0 |
| Mixed Cell Focus | | | X | | | | | | | | | | | X | X | X | | X | X | | X | X | X | 13 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bile Duct, Cyst | | | | | | | | | | | 2 | | | | | | | | | | 2 | | | 3 2.0 |
| Bile Duct, Hyperplasia | 1 | | 1 | | | | | | | 1 | 1 | | | | | 1 | 1 | 1 | | | 1 | 1 | 1 | 20 1.1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|--------|-------|
| | 077 | 077 | 077 | 077 | 077 | 077 | 076 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 075 | 077 | 077 | 077 | 077 | | 077 | 077 | | |
| ANIMAL ID | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | |
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | + | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 1.5 | |
| Oral Mucosa
Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 4.0 |
| Pancreas
Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | 1 | 23 1.2 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | + | 50 | |
| Stomach, Forestomach
Inflammation | | | | | | | | | | | | | | | | | | | | | | | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | + | 1 1.0 | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | + | 50 | |
| Tooth
Malformation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | + | 50 | |
| Heart
Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | 2 | 48 1.6 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | + | 50 | |

* .. 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
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| FISCHER 344 RATS FEMALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|-----|-----|-----|
| | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
5 | 0
7 | 0
7 | 0
7 | | 0
7 | 0
7 | 0
7 | 0
7 | | | | |
| ANIMAL ID | 0
0
3
7
6 | 0
0
3
7
7 | 0
0
3
7
8 | 0
0
3
7
9 | 0
0
3
8
0 | 0
0
3
8
1 | 0
0
3
8
2 | 0
0
3
8
3 | 0
0
3
8
4 | 0
0
3
8
5 | 0
0
3
8
6 | 0
0
3
8
7 | 0
0
3
8
8 | 0
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9 | 0
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0 | 0
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3
9
1 | 0
0
3
9
2 | 0
0
3
9
3 | 0
0
3
9
4 | 0
0
3
9
5 | 0
0
3
9
6 | 0
0
3
9
7 | 0
0
3
9
8 | 0
0
3
9
9 | 0
0
3
9
0 | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 3 | 1.7 | |
| Hypertrophy | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 3 | 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 46 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.0 | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Pars Distalis, Hyperplasia | 1 | 1 | 1 | | | | | | 4 | 1 | | 1 | | 2 | 2 | | | | | 2 | 3 | | 2 | | 2 | | 24 | 1.9 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 17 | 1.2 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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. 99013 - 05
 Test Type: Chronic PN
 Route: DOSED FEED
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Styrene-acrylonitrile trimer
 CAS Number: SANTRIMER2

Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE

1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
6
1
8 | 0
7
2
8 | 0
7
2
8 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
5
7
8 | 0
7
2
8 | 0
7
2
8 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | | |
| ANIMAL ID | 0
0
3
7
6 | 0
0
3
7
7 | 0
0
3
7
8 | 0
0
3
7
9 | 0
0
3
8
0 | 0
0
3
8
1 | 0
0
3
8
2 | 0
0
3
8
3 | 0
0
3
8
4 | 0
0
3
8
5 | 0
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6 | 0
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3
8
7 | 0
0
3
8
8 | 0
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3
8
9 | 0
0
3
9
0 | 0
0
3
9
1 | 0
0
3
9
2 | 0
0
3
9
3 | 0
0
3
9
4 | 0
0
3
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5 | 0
0
3
9
6 | 0
0
3
9
7 | 0
0
3
9
8 | 0
0
3
9
9 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Cyst | | | | 1 | | | | 2 | | 4 | | | | | | | | | | | | 1 | | 4 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | |
| Cervix, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Endometrium, Hyperplasia, Adenomatous | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | |
| Endometrium, Hyperplasia, Cystic | | | | 1 | | | | | | | | | | | | | | | | | 4 | | | 3 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 1 | 2 | 1 | 4 | 1 | 1 | 1 | 1 | 3 | | | 1 | 2 | 1 | 1 | | 1 | | 1 | | | 3 | 1 | 1 | |
| Inflammation | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Granulomatous | | | 1 | | | | | | | | | | | | | | | | | | | | 2 | 2 | |
| Myelofibrosis | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | + | | 2 | |
| Deep Cervical, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | 1 | 2 | | | | | | | | 2 | | | | | | | | | | | | | | 3 | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | 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. 99013 - 05
 Test Type: Chronic PN
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 Styrene-acrylonitrile trimer
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Date Report Requested: 09/23/2010
 Time Report Requested: 12:12:35
 First Dose M/F: 05/12/05 / 05/13/05
 Lab: BAT

| FISCHER 344 RATS FEMALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|----|
| | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | 07 | |
| ANIMAL ID | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pigmentation, Hemosiderin | | | | 1 | | 1 | 1 | 1 | | | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 38 |
| Lymphoid Follicle, Atrophy | | | | | | | | 4 | | | | | | | | | | | | | | | 1 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 49 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fracture | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | 1 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Alveolar Epithelium, Hyperplasia | 1 | | | | | | 1 | | | | 1 | | | | | | | | 2 | 1 | | 1 | 15 |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | 1 | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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| FISCHER 344 RATS FEMALE
1600 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|------|
| | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | | | 0727 |
| ANIMAL ID | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | | | 1 | 1 | | | | 1 | | | | | | | | 1 | | 1 | 1 | 13 | 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | 1 | | | | | | | | | | | | | | | | | 1 | 1 | 9 | 1.0 |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Lens, Cataract | | | | | | | | 4 | | | | 2 | | | | | | | | | | 5 | 2.6 |
| Retina, Degeneration | | | | | | | | 4 | | | | | | | | | | | | | | 3 | 4.0 |
| Retina, Gliosis | | | | | 2 | | | | | | | | | | | | | | | | | 4 | 1.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | | | | 1 | | | | 2 | | | | | | | | | | | | | | 2 | 1.5 |
| Infiltration Cellular, Lymphoid | | | | 3 | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation, Chronic Active | | | | | | 3 | | | | | | | | | | | | | | | | 1 | 3.0 |
| Nephropathy | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 45 | 1.2 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Pelvis, Dilatation | | | | 2 | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | 1 | 1.0 |

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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 077 | 077 | 077 | 077 | 077 | 077 | 076 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 075 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | |
| 1600 PPM | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| ANIMAL ID | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | 0037 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | 2 | | | | | | | 1 | | | | | 4 | 4 | | | | | 12 2.3 |
| Transitional Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |

*** END OF REPORT ***

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