

TDMS No. 20313 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Acrylamide
CAS Number: 79-06-1

Date Report Requested: 01/15/2010
Time Report Requested: 14:38:46
First Dose M/F: 05/23/05 / 05/23/05
Lab: NCTR

C Number: C20313
Lock Date: 01/14/2010
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-NCTR RATS MALE 0.70 ACRYL	DAY ON TEST																							
	0621	0744	0774	0698	0744	0536	0730	0561	0741	0603	0676	0743	0612	0577	0744	0567	0592	0744	0593	0744	0725	0583	0663	0421
ANIMAL ID	0001	0001	0000	0000	0000	0000	0000	0000	0000	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
	11	21	21	22	31	32	41	42	51	52	11	21	22	31	32	41	42	51	52	11	21	22	11	21
	males (cont...)																							

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum Inflammation Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum Inflammation Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus, Multiple Cyst																X								
Degeneration, Cystic Eosinophilic Focus								2	2					3										
Eosinophilic Focus, Multiple Granuloma			X												X				X					
Hematopoietic Cell Proliferation Hepatodiaphragmatic Nodule																							3	1
Infiltration Cellular, Lymphocyte																								1

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	ANIMAL ID	0 0 0 1 1	0 0 0 1 2	0 0 0 2 1	0 0 0 2 2	0 0 0 3 1	0 0 0 3 2	0 0 0 4 1	0 0 0 4 2	0 0 0 5 1	0 0 0 5 1	0 0 0 1 2	0 0 0 5 1	0 0 0 2 2	0 0 0 5 1	0 0 0 3 2	0 0 0 5 4	0 0 0 5 1	0 0 0 5 2	0 0 0 5 1	0 0 0 5 2	0 1 4 1 1	0 1 4 2 1	0 1 4 2 2	0 1 4 3 1	
Necrosis, Coagulative								1																		
Vacuolization Cytoplasmic																					1					
Bile Duct, Hyperplasia		2	2	2		1		3	1	3	2				2					2	2			1		
Centrilobular, Necrosis																										
Hepatocyte, Hyperplasia										3																
Left Lateral Lobe, Developmental Malformation																										X
Right Lateral Lobe, Developmental Malformation											X															
Mesentery									+											+		+				+
Fat, Necrosis									3											3						2
Oral Mucosa			+							+						+										
Hyperplasia			2							2																
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation										2																
Polyarteritis																										
Acinar Cell, Atrophy				1			2						2		2											
Mesothelium, Hyperplasia											2															
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema									3														4			
Hyperplasia										2				3									2			
Inflammation																										
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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	0001	0001	0000	0000	0000	0000	0000	0000	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005		0005	0005	0005	0005	0005
	1	4	4	8	4	6	0	1	4	1	3	6	3	2	7	4	7	2	4	3	4	4	5	3	3	1
	0011	0012	0021	0022	0031	0032	0041	0042	0051	0052	0051	0052	0051	0052	0051	0052	0051	0052	0051	0052	0051	0052	0051	0052	0051	0052

Tongue																													
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CARDIOVASCULAR SYSTEM																													
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	2	2	2	2	2		2	3	2	2		2		3	2	2	2	2	2	2		3	1	1				
Inflammation		2																											
Atrium, Thrombosis				X			X			X			X									X							

ENDOCRINE SYSTEM																													
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule															X														
Angiectasis	1				2																								
Atrophy																													
Hypertrophy, Focal					2			2		1			3								2								
Vacuolization Cytoplasmic			3			2	4	1									2		3	2									
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																													
Hyperplasia, Focal											2				2		2												
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+			
Atrophy	2																												
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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ANIMAL ID	0001	0001	0000	0000	0000	0000	0000	0000	0000	0005	0005	0005	0005	0002	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005
	11	22	21	22	33	32	44	51	52	11	22	11	22	22	31	32	44	42	51	52	11	22	22	31

males
(cont...)

Angiectasis	2																							
Pars Distalis, Cyst	X																							
Pars Distalis, Hyperplasia	2 2																							
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia	2 3																							
Follicle, Cyst	X																							
Follicular Cell, Hyperplasia	2																							

GENERAL BODY SYSTEM

Peritoneum																								
Tissue NOS	+																							
Fat, Scrotal, Necrosis	3																							

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Exfoliated Germ Cell	3	3	2	3		2	3	2		2	4	1	4				1	3		3		2	3	
Hypospermia	2	3		4	4				4	2	4	3	4		4			4		4	4			
Penis	+																							
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	2	3		4	4	1		2	3	2		3	2	2		2		3	2	3	3	2	3	
Duct, Ectasia		2	2										3	2										
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	3					2	4		2	2	3	4	2			2	2		3		2	2	2	

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Seminal Vesicle Atrophy		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Decreased Secretory Fluid					2	2							2				2					2	2				
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Polyarteritis																											
Interstitial Cell, Hyperplasia						2							2														
Seminiferous Tubule, Atrophy		3	3		3		2		4		3	3	3		4							4			2		
HEMATOPOIETIC SYSTEM																											
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy							4			3		3															
Hyperplasia														2													
Myeloid Cell, Hyperplasia																											
Lymph Node					+		+		+		+	+	+	+		+		+	+			+		+			
Degeneration, Cystic																					3						
Inflammation																					3						
Lumbar, Hyperplasia, Lymphoid																											
Mediastinal, Hyperplasia, Lymphoid																											
Mediastinal, Infiltration Cellular, Mast Cell																											
Mediastinal, Medulla, Sinus, Dilatation							4																				
Medulla, Renal, Sinus, Dilatation																											
Pancreatic, Hyperplasia, Lymphoid									2																		
Renal, Degeneration, Cystic																	4								4		
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic				2													3				2	2				2	
Hyperplasia, Lymphoid				2					2																		

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	0001	0001	0002	0002	0003	0003	0004	0004	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005	0005		0005	
ANIMAL ID	11	11	22	22	33	33	44	44	55	55	11	22	22	33	33	44	44	55	55	55	55	55	55	55		55	
Infiltration Cellular, Plasma Cell	2	3				3					2			3	2		2	3		2	2		2				
Lymph Node, Mesenteric Degeneration, Cystic Hemorrhage Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
	3				2					2		2					3		4								
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Accessory Spleen				X																							
Infarct			X						X					X							X	X					
Pigmentation	2																										
Red Pulp, Atrophy	2	3						3																			
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+		
Atrophy	3	2	2	2	3	2	2	2	2	2	3			2	3	2	3	2	2	2	2		2	2			
Cyst														X													

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+		
Galactoceles	X															X		X					X			
Lactation		2		3			1		2	2		3	2			3	3		3	2			2			
Alveolus, Hyperplasia									2	1		2				4			1							
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Abscess						4																				
Cyst Epithelial Inclusion			X																							
Fat, Subcutaneous Tissue, Necrosis														3												
Tail, Hyperkeratosis																										

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MUSCULOSKELETAL SYSTEM

Bone																									+
Cranium, Fracture																									X
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hypothalamus, Compression	1		2										3			3	3		2	2					
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																									
Hydrocephalus																	2								
Ventricle, Dilatation																	2								
Peripheral Nerve, Sciatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Axon, Degeneration	1	1			1		1		1		1					1	1		1	1				1	1
Spinal Cord, Cervical	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration, Focal																									
Axon, Degeneration		1	1	1			1			1			1			1					1	1		1	
Spinal Cord, Lumbar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Axon, Degeneration							1																				
Nerve, Degeneration			1	1	1	1	1					1			2			1		1	1						
Spinal Cord, Thoracic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Axon, Degeneration			1	1	1				1	1		1	1				1	1	1	1		1					

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																										2
Inflammation					2													4								
Alveolar Epithelium, Hyperplasia		2	2															3								
Alveolus, Infiltration Cellular, Histiocyte		2				1																				
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																										2
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Retina, Degeneration		2										3			2						1	2				
Sclera, Metaplasia, Osseous						2		2									2									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Lymphocyte				1	1																		1			
Zymbal's Gland																										

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.70 ACRYL	DAY ON TEST	0 4 1 7	0 7 4 4	0 5 6 3	0 4 9 9	0 6 3 4	0 5 5 5	0 7 1 6	0 6 7 5	0 5 6 2	0 5 8 4	0 7 0 5	0 6 9 3	0 7 2 3	0 5 4 8	0 7 2 6	0 6 5 4	0 5 4 9	0 5 5 6	0 7 1 1	0 5 7 8	0 7 4 4	0 5 7 6	
	ANIMAL ID	0 1 4 3 2	0 1 4 4 1	0 1 4 4 2	0 1 4 5 1	0 1 4 5 2	0 1 8 1 1	0 1 8 1 2	0 1 8 2 1	0 1 8 2 2	0 1 8 3 1	0 1 8 3 2	0 1 8 4 1	0 1 8 4 2	0 1 8 5 1	0 1 8 5 2	0 2 4 3 2	0 2 4 4 1	0 2 4 5 2	0 2 4 5 1	0 2 4 5 2	0 2 4 6 1	0 2 4 6 2	* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A		47
Inflammation																				4				1 4.0
Ulcer																				3				1 3.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	45
Inflammation																								1 3.0
Ulcer																								1 3.0
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Basophilic Focus, Multiple																								1
Cyst																				X				1
Degeneration, Cystic		1				1	2	3		2					2	4					2			11 2.2
Eosinophilic Focus																								3
Eosinophilic Focus, Multiple																								1
Granuloma			2		1																			4 1.8
Hematopoietic Cell Proliferation																								1 2.0
Hepatodiaphragmatic Nodule													X											2
Infiltration Cellular, Lymphocyte																								1 1.0

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

Tongue	+																				1	
--------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----------	--

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Cardiomyopathy	2	3		1	3		2		2	3	2	2	2	1	2		2		2	3	2	2	38 2.1
Inflammation																							1 2.0
Atrium, Thrombosis						X		X			X	X							X				10

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Accessory Adrenal Cortical Nodule																							1
Angiectasis						2																	3 1.7
Atrophy			3															3					2 3.0
Hypertrophy, Focal		2					2													3			8 2.1
Vacuolization Cytoplasmic	2			2				2		2							1	1					13 2.1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	47
Angiectasis		2																					2 2.0
Hyperplasia, Focal						2								2									5 2.0
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	44
Atrophy																							1 2.0
Pituitary Gland	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47

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TDMS No. 20313 - 05
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

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 Lab: NCTR

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		0 4 1 7	0 7 4 4	0 5 6 3	0 4 9 9	0 6 3 4	0 5 5 5	0 7 1 6	0 6 7 5	0 5 6 2	0 5 8 4	0 7 0 5	0 6 9 3	0 7 2 3	0 5 4 8	0 7 2 6	0 6 2 8	0 6 5 4	0 5 4 9	0 5 5 6	0 7 1 1	0 5 7 8	0 7 4 4	0 5 7 6			
		0 1 4 3 2	0 1 4 4 1	0 1 4 4 2	0 1 4 5 1	0 1 4 5 2	0 1 8 1 1	0 1 8 1 2	0 1 8 2 1	0 1 8 2 2	0 1 8 3 1	0 1 8 3 2	0 1 8 4 1	0 1 8 4 2	0 1 8 5 1	0 1 8 5 2	0 2 4 3 1	0 2 4 3 2	0 2 4 4 1	0 2 4 4 2	0 2 4 5 1	0 2 4 5 2	0 2 4 6 1	0 2 4 6 2			
ANIMAL ID																										* TOTALS	
Angiectasis		2																								2 2.0	
Pars Distalis, Cyst		X																								2	
Pars Distalis, Hyperplasia		2																								3 2.0	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
C-cell, Hyperplasia		2																								5 2.2	
Follicle, Cyst																										2	
Follicular Cell, Hyperplasia		2																								3 2.0	
GENERAL BODY SYSTEM																											
Peritoneum		+																								2	
Tissue NOS																										1	
Fat, Scrotal, Necrosis																										1 3.0	
GENITAL SYSTEM																											
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Exfoliated Germ Cell		2																								24 2.5	
Hypospermia		3																								24 3.5	
Penis																										1	
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Inflammation		2																								35 2.5	
Duct, Ectasia		2																								10 2.4	
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Inflammation		3																								25 2.3	

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TDMS No. 20313 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.70 ACRYL	DAY ON TEST	0 4 1 7	0 7 4 4	0 5 6 3	0 4 9 9	0 6 3 4	0 5 5 5	0 7 1 6	0 6 7 5	0 5 6 2	0 5 8 4	0 7 0 5	0 6 9 3	0 7 2 3	0 5 4 8	0 7 2 6	0 6 2 8	0 6 5 4	0 5 4 9	0 5 5 6	0 7 1 1	0 5 7 8	0 7 4 4	0 5 7 6	
	ANIMAL ID	0 1 4 3 2	0 1 4 4 1	0 1 4 4 2	0 1 4 5 1	0 1 4 5 2	0 1 1 1 1	0 1 8 1 2	0 1 8 2 1	0 1 8 2 2	0 1 8 3 1	0 1 8 3 2	0 1 8 3 1	0 1 8 4 2	0 1 8 5 1	0 2 4 3 2	0 2 4 3 1	0 2 4 4 2	0 2 4 4 2	0 2 4 5 1	0 2 4 5 2	0 2 4 6 1	0 2 4 6 2	0 2 6 1 2	
																									* TOTALS
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Atrophy							2								2			2							9
Decreased Secretory Fluid						3																			1
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Polyarteritis			3																						1
Interstitial Cell, Hyperplasia		2																							3
Seminiferous Tubule, Atrophy			3	3										3	4								4		16
HEMATOPOIETIC SYSTEM																									
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Atrophy																	3								4
Hyperplasia					2									4											3
Myeloid Cell, Hyperplasia		2																							1
Lymph Node			+			+	+				+	+		+	+	+	+		+			+	+		24
Degeneration, Cystic																									1
Inflammation																									1
Lumbar, Hyperplasia, Lymphoid					2																				1
Mediastinal, Hyperplasia, Lymphoid							2																		1
Mediastinal, Infiltration Cellular, Mast Cell							3																		1
Mediastinal, Medulla, Sinus, Dilatation																									1
Medulla, Renal, Sinus, Dilatation																					4				1
Pancreatic, Hyperplasia, Lymphoid																									1
Renal, Degeneration, Cystic			3																						3
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Degeneration, Cystic					3		2				2			3				2	2			2			12
Hyperplasia, Lymphoid																									2

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FISCHER 344 RATS-NCTR RATS MALE 0.70 ACRYL	DAY ON TEST																											
	0 4 1 7	0 7 4 4	0 5 6 3	0 4 9 9	0 6 3 4	0 5 5 5	0 7 1 6	0 6 7 5	0 5 6 2	0 5 8 4	0 7 0 5	0 6 9 3	0 7 2 3	0 5 4 8	0 7 2 6	0 6 2 8	0 6 5 4	0 5 4 9	0 5 5 6	0 7 1 1	0 5 7 8	0 7 4 4	0 5 5 6					
	0 1 4 3 2	0 1 4 4 1	0 1 4 4 2	0 1 4 4 5	0 1 4 4 1	0 1 8 5 2	0 1 8 1 1	0 1 8 2 2	0 1 8 2 2	0 1 8 3 1	0 1 8 3 2	0 1 8 4 1	0 1 8 4 2	0 1 8 5 1	0 1 8 5 2	0 2 4 3 1	0 2 4 3 2	0 2 4 4 1	0 2 4 4 2	0 2 4 5 1	0 2 4 5 2	0 2 6 1 2	0 2 6 2 6					
* TOTALS																												
Infiltration Cellular, Plasma Cell	3		3	2	3		2						2		4								18 2.5					
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48				
Degeneration, Cystic													2													4		5 3.2
Hemorrhage													2															3 2.0
Hyperplasia, Lymphoid													2															4 2.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48				
Accessory Spleen														X														2
Infarct													X	X												X	X	9
Pigmentation																											1 2.0	
Red Pulp, Atrophy													2														4 2.5	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47				
Atrophy	2	3	3	3	2	2	3	2	3	3	2	2	3	2	2		2	3	3	2	2	2	2	43 2.3				
Cyst	1																											

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	44	
Galactoceles		X								X	X		X						X						9	
Lactation		3					4	2			2		2		2		1								19 2.3	
Alveolus, Hyperplasia		2					4						1			2						3			10 2.2	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Abscess																									1 4.0	
Cyst Epithelial Inclusion																									1	
Fat, Subcutaneous Tissue, Necrosis																									1 3.0	
Tail, Hyperkeratosis																			2						1 2.0	

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FISCHER 344 RATS-NCTR RATS MALE 0.70 ACRYL		DAY ON TEST																								
		0 4 1 7	0 7 4 4	0 5 6 3	0 4 9 9	0 6 3 4	0 5 5 5	0 7 1 6	0 6 7 5	0 5 6 2	0 5 8 4	0 7 0 5	0 6 9 3	0 7 2 3	0 5 4 8	0 7 2 6	0 6 2 8	0 6 5 4	0 5 4 9	0 5 5 6	0 7 1 1	0 5 7 8	0 7 4 4	0 5 7 6		
ANIMAL ID		0 1 4 3 2	0 1 4 4 1	0 1 4 4 2	0 1 4 4 5	0 1 8 5 2	0 1 8 1 1	0 1 8 2 2	0 1 8 2 1	0 1 8 3 2	0 1 8 3 1	0 1 8 4 1	0 1 8 4 2	0 1 8 5 1	0 1 8 5 2	0 2 4 3 1	0 2 4 3 2	0 2 4 4 1	0 2 4 4 2	0 2 4 4 5	0 2 4 5 1	0 2 4 5 2	0 2 4 6 1	0 2 4 6 2		
		* TOTALS																								

MUSCULOSKELETAL SYSTEM

Bone																								
Cranium, Fracture																								
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

NERVOUS SYSTEM

Brain, Brain Stem Hypothalamus, Compression	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	9	2.1	
	2								1																		
Brain, Cerebellum Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	+	+	+	+	48	1	2.0
Brain, Cerebrum Hemorrhage Hydrocephalus Ventricle, Dilatation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	+	+	+	+	48	1	1.0
Peripheral Nerve, Sciatic Axon, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	+	+	+	+	48	23	1.0
	1		1		1		1		1		1		2		1				1		1		1				
Spinal Cord, Cervical Degeneration, Focal Axon, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	+	+	+	+	48	1	2.0
			1		1		1				1				1		1				1		1				
Spinal Cord, Lumbar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48			

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FISCHER 344 RATS-NCTR RATS MALE 0.70 ACRYL		DAY ON TEST																								
		0 4 1 7	0 7 4 4	0 5 6 3	0 4 9 9	0 6 3 4	0 5 5 5	0 7 1 6	0 6 7 5	0 5 6 2	0 5 8 4	0 7 0 5	0 6 9 3	0 7 2 3	0 5 4 8	0 7 2 6	0 6 2 8	0 6 5 4	0 5 4 9	0 5 5 6	0 7 1 1				0 5 7 8	0 7 4 4
ANIMAL ID		0 1 4 3 2	0 1 4 4 2	0 1 4 4 2	0 1 4 4 5	0 1 4 4 5	0 1 1 8 1	0 1 1 8 2	0 1 1 8 2	0 1 1 8 2	0 1 1 8 3	0 1 1 8 3	0 1 1 8 4	0 1 1 8 5	0 1 2 3 1	0 2 4 3 2	0 2 4 3 2	0 2 4 4 1	0 2 4 4 2	0 2 4 4 5	0 2 4 5 2	0 2 4 5 1	0 2 4 6 2			
		* TOTALS																								
Axon, Degeneration		1 1.0																								
Nerve, Degeneration		16 1.1																								
Spinal Cord, Thoracic		48																								
Axon, Degeneration		21 1.0																								
RESPIRATORY SYSTEM																										
Lung		48																								
Hemorrhage		1 2.0																								
Inflammation		5 2.6																								
Alveolar Epithelium, Hyperplasia		4 2.5																								
Alveolus, Infiltration Cellular, Histiocyte		4 2.0																								
Nose		48																								
Inflammation		1 2.0																								
Trachea		48																								
SPECIAL SENSES SYSTEM																										
Eye		45																								
Retina, Degeneration		10 2.0																								
Sclera, Metaplasia, Osseous		4 2.0																								
Harderian Gland		48																								
Infiltration Cellular, Lymphocyte		9 1.1																								
Zymbal's Gland		1																								

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 BLANK .. Not examined microscopically

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

TDMS No. 20313 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Acrylamide
CAS Number: 79-06-1

Date Report Requested: 01/15/2010
Time Report Requested: 14:38:46
First Dose M/F: 05/23/05 / 05/23/05
Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.70 ACRYL	DAY ON TEST	0 4 1 7	0 7 4 4	0 5 6 3	0 4 9 9	0 6 3 4	0 5 5 5	0 7 1 6	0 6 7 5	0 5 6 2	0 5 8 4	0 7 0 5	0 6 9 3	0 7 2 3	0 5 4 8	0 7 2 6	0 6 5 4	0 5 4 9	0 7 5 6	0 5 1 1	0 7 7 8	0 4 4 4	0 5 7 6	
	ANIMAL ID	0 1 4 3 2	0 1 4 4 1	0 1 4 4 2	0 1 4 5 1	0 1 4 5 2	0 1 8 1 1	0 1 8 1 2	0 1 8 2 1	0 1 8 2 1	0 1 8 3 1	0 1 8 3 2	0 1 8 4 1	0 1 8 5 2	0 2 4 5 1	0 2 4 5 2	0 2 4 4 1	0 2 4 4 2	0 2 4 5 1	0 2 4 5 2	0 2 4 5 1	0 2 4 6 1	0 2 4 6 2	
	* TOTALS																							

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Nephropathy	1	4	2	2	2	3	4	2	1	3	3	3	2	2	3	1	2	1	2	4	3	3	2		46 2.5
Urethra																+								1	
Bulbourethral Gland, Inflammation																4									1 4.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Dilatation					4																				1 4.0
Hemorrhage																									1 2.0

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TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST																									males (cont...)
	0691	0744	0691	0561	0744	0744	0744	0744	0744	0631	0744	0686	0744	0744	0744	0744	0621	0622	0592	0435	0718	0744	0744	0585	0744	
ANIMAL ID	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	00361	males (cont...)
Hepatodiaphragmatic Nodule																										
Pigmentation																										males (cont...)
Regeneration																										
Thrombosis																										males (cont...)
Vacuolization Cytoplasmic																										
Bile Duct, Hyperplasia																										males (cont...)
Centrilobular, Necrosis																										
Left Lateral Lobe, Developmental Malformation																										males (cont...)
Median Lobe, Developmental Malformation																										
Oval Cell, Hyperplasia																										males (cont...)
Right Lateral Lobe, Developmental Malformation																										
Mesentery																										males (cont...)
Accessory Spleen																										
Fat, Necrosis																										males (cont...)
Oral Mucosa																										
Hyperplasia																										males (cont...)
Pancreas																										
Polyarteritis																										males (cont...)
Acinar Cell, Atrophy																										
Salivary Glands																										males (cont...)
Stomach, Forestomach																										
Edema																										males (cont...)
Hyperplasia																										
Inflammation																										males (cont...)

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TDMS No. 20313 - 05
 Test Type: CHRONIC
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FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST																							
	0691	0744	0691	0561	0744	0744	0744	0744	0744	0631	0744	0686	0744	0744	0744	0744	0621	0627	0592	0435	0718	0744	0744	0584
ANIMAL ID	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
	males (cont...)																							

Ulcer	3																							
Stomach, Glandular Amyloid Deposition Hemorrhage Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tongue															+									

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	2	3	3		2		2	2	1	2	2		2	2	3		1		1	2	2	2	2
Dilatation			4																					
Atrium, Thrombosis	X									X		X								X	X	X		
Myocardium, Hypertrophy																								

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																3								
Hyperplasia, Focal																								
Hypertrophy, Focal				2			2								2						2			
Thrombosis																2								
Vacuolization Cytoplasmic				1														2				2	2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																								

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TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST	0 6 9 1	0 7 4 4	0 6 9 1	0 5 6 1	0 7 4 4	0 7 4 4	0 7 4 4	0 7 4 5	0 7 4 4	0 6 3 1	0 7 4 4	0 6 8 6	0 7 0 5	0 7 4 4	0 7 2 5	0 7 4 4	0 6 2 1	0 6 2 7	0 5 9 2	0 4 3 5	0 7 1 8	0 7 4 4	0 7 4 4	0 5 8 5	0 7 4 4	males (cont...)		
	ANIMAL ID	0 0 3 6 1	0 0 3 6 2	0 0 3 7 1	0 0 3 7 2	0 0 3 8 1	0 0 3 8 2	0 0 3 9 1	0 0 4 9 2	0 0 4 0 1	0 0 4 1 2	0 0 7 1 1	0 0 7 1 2	0 0 7 1 1	0 0 7 2 1	0 0 7 2 2	0 0 7 3 1	0 0 7 4 1	0 0 7 4 2	0 0 7 5 1	0 0 7 5 2	0 1 1 1 1	0 1 3 1 2	0 1 3 2 1	0 1 3 2 2	0 1 3 2 2			
Hyperplasia, Focal		2																											
Islets, Pancreatic Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Parathyroid Gland		3																											
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Angiectasis		2																											
Pigmentation		2																											
Pars Distalis, Hyperplasia																													
Pars Intermedia, Cyst		X														X													
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
C-cell, Hyperplasia		1																											
Follicle, Cyst		X																											

GENERAL BODY SYSTEM

Tissue NOS
 Fat, Necrosis

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																											
Exfoliated Germ Cell	3				2	3	2	3	1	3		1	2	2			2							3			
Hypospermia	2		4					4	3		2	4		2	4	4	4					4	4	2		3	
Penis																											

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TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST	0 6 9 1	0 7 4 4	0 6 9 1	0 5 6 1	0 7 4 4	0 7 4 4	0 7 4 4	0 7 0 5	0 7 4 4	0 6 3 1	0 7 4 6	0 6 8 5	0 7 0 4	0 7 2 5	0 7 4 4	0 6 2 1	0 6 2 7	0 5 9 2	0 4 3 5	0 7 1 8	0 7 4 4	0 7 4 4	0 5 8 5	0 7 4 4	males (cont...)
	ANIMAL ID	0 0 3 6 1	0 0 3 6 2	0 0 3 7 1	0 0 3 7 2	0 0 3 8 1	0 0 3 8 2	0 0 3 9 1	0 0 3 9 2	0 0 4 0 1	0 0 4 0 2	0 0 4 1 1	0 0 4 1 2	0 0 4 2 1	0 0 4 3 2	0 0 4 3 3	0 0 4 4 1	0 0 4 4 2	0 0 4 5 1	0 0 4 5 2	0 1 3 1 1	0 1 3 1 2	0 1 3 2 1	0 1 3 2 2	0 1 3 3 1	
Preputial Gland Inflammation Duct, Ectasia Glandular, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
		2	3	2	1				3	2		3		3	3		2		3			4	3	3	2	3
			3						3			3			2				3	3				3	3	
																								2		
Prostate Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
					3	2			3	1	2		3	2	3		2	2	2	2		1		2	2	3
Seminal Vesicle Atrophy Decreased Secretory Fluid		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
				2								2	2			2						2				
							4																			
Testes Interstitial Cell, Hyperplasia Seminiferous Tubule, Atrophy		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
					1																					4
		3		3		2								2	3		3									2

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy														2											
Hyperplasia																		3							
Lymph Node	+		+			+			+				+	+	+		+		+				+		
Lumbar, Medulla, Sinus, Dilatation					2																				
Mediastinal, Degeneration, Cystic														2	3										
Mediastinal, Hemorrhage																									
Mediastinal, Medulla, Sinus, Dilatation																									
Medulla, Pancreatic, Sinus, Dilatation												4													
Renal, Degeneration, Cystic	4														4								3		

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TDMS No. 20313 - 05
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	ANIMAL ID	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	00362	00361	
Renal, Hemorrhage																									
Lymph Node, Mandibular Degeneration, Cystic Hemorrhage Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
						3		3			3			2						2		2			
									3	2				2						2					3
		3	3		2		3				2												3		
										2															
Lymph Node, Mesenteric Degeneration, Cystic Hemorrhage Infiltration Cellular, Plasma Cell Medulla, Sinus, Dilatation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
						2					3										2				
								2							3										
															3										
Spleen Accessory Spleen Hematopoietic Cell Proliferation Infarct Pigmentation Capsule, Hematocyst Red Pulp, Atrophy		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
				X										X		X									
		X			X								X										X		
					2																				
																									3
Thymus Atrophy Cyst		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
		3	2		2	2	3	2	3		3			2	2	2		2		2	2	2	2	3	
																					X				

INTEGUMENTARY SYSTEM

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

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TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
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FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST	0691	0744	0691	0561	0744	0744	0744	0705	0741	0631	0744	0686	0705	0744	0725	0744	0621	0627	0592	0435	0718	0744	0744	0585	0744	males (cont...)	
	ANIMAL ID	00361	00362	00371	00372	00381	00382	00391	00392	00401	00402	00411	00412	00421	00422	00431	00432	00441	00442	00451	00452	00461	00462	00471	00472	00481		00482
	Galactocoele								X									X	X							X		
Lactation		2		3	3	2							3		2	2			3		1				2	1	2	
Alveolus, Hyperplasia		3		3				1							2	2	2									1		
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion								X																				
Subcutaneous Tissue, Metaplasia, Osseous																												

MUSCULOSKELETAL SYSTEM

Bone			+																								
Vertebra, Fracture			X																								
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																											
Hypothalamus, Compression				3	2	3		2				3				2		3					2		3		
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ventricle, Dilatation																								2			
Peripheral Nerve, Sciatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Axon, Degeneration														1									1		1		

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FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL		DAY ON TEST																								
		0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 4	0 6 6 9	0 6 6 4	0 7 0 4	0 6 7 3	0 7 3 7	0 6 4 0	0 4 8 2	0 7 2 2	0 5 0 2	0 5 3 6	0 5 5 5	0 7 2 4	0 6 2 6	0 7 4 4	0 7 4 4	0 7 4 4	0 6 9 0		
ANIMAL ID		0 1 3 3 2	0 1 3 4 1	0 1 3 4 2	0 1 3 5 1	0 1 3 5 2	0 1 7 6 1	0 1 7 6 2	0 1 7 7 1	0 1 7 7 2	0 1 7 8 1	0 1 7 8 2	0 1 8 9 1	0 1 8 9 2	0 2 8 0 1	0 2 1 4 2	0 2 2 4 1	0 2 2 5 2	0 2 2 6 1	0 2 2 6 2	0 2 2 6 1	0 2 2 6 2	0 2 2 7 1	0 2 2 7 2	* TOTALS	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Dilatation																								1
Lymphoid Tissue, Hyperplasia	2	2																						3 2.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lymphoid Tissue, Hyperplasia																								1 2.0
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Mucosa, Hyperplasia											3													1 3.0
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lymphoid Tissue, Hyperplasia	3				3					2														3 2.7
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Lymphoid Tissue, Hyperplasia																								2 2.5
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Angiectasis																								1 3.0
Basophilic Focus, Multiple																								1
Degeneration, Cystic							2			2														6 2.2
Eosinophilic Focus	X																	X						5
Eosinophilic Focus, Multiple																								1
Granuloma	2																							4 1.8
Hematopoietic Cell Proliferation																								1 1.0

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL		DAY ON TEST																									
		0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 4	0 6 6 9	0 6 6 4	0 7 9 4	0 6 7 4	0 7 3 7	0 6 4 0	0 4 8 2	0 7 2 2	0 5 0 2	0 5 3 6	0 5 5 5	0 7 2 4	0 6 2 6	0 7 4 4	0 7 4 4	0 7 4 4	0 6 9 0			
		ANIMAL ID																									
		0 1 3 3 2	0 1 3 4 1	0 1 3 4 2	0 1 3 5 1	0 1 7 6 2	0 1 7 6 1	0 1 7 7 2	0 1 7 7 1	0 1 7 8 2	0 1 7 7 1	0 1 7 8 2	0 1 7 7 1	0 1 8 9 2	0 1 8 9 1	0 2 0 2	0 2 1 4 1	0 2 2 4 2	0 2 1 5 1	0 2 2 5 2	0 2 1 6 1	0 2 2 6 2	0 2 1 7 1	0 2 2 7 2	* TOTALS		
Hepatodiaphragmatic Nodule		1																									
Pigmentation		3																								1 3.0	
Regeneration		4																								1 4.0	
Thrombosis		2																								1 2.0	
Vacuolization Cytoplasmic		2		4			3		4		3			3													10 2.8
Bile Duct, Hyperplasia		2		2				3		3				2					2	1	2				2		17 1.8
Centrilobular, Necrosis						2		2																			2 2.0
Left Lateral Lobe, Developmental Malformation													X														2
Median Lobe, Developmental Malformation		X																									1
Oval Cell, Hyperplasia										3																	1 3.0
Right Lateral Lobe, Developmental Malformation							X																				2
Mesentery					+					+					+					+							7
Accessory Spleen																											1
Fat, Necrosis										3					3					3							5 2.8
Oral Mucosa																				+							6
Hyperplasia																											2 3.0
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48
Polyarteritis																											1 2.0
Acinar Cell, Atrophy			1						2		2									2					2		14 1.7
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48
Edema							4																				1 4.0
Hyperplasia							3					3															2 3.0
Inflammation											3	3		3													4 3.0

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TDMS No. 20313 - 05
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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST	0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 4	0 6 6 9	0 6 6 4	0 7 0 4	0 6 7 3	0 7 3 7	0 6 4 0	0 7 2 2	0 5 0 2	0 5 3 6	0 5 5 5	0 7 2 4	0 6 2 6	0 7 4 4	0 7 4 4	0 7 4 4	0 6 9 0		
	ANIMAL ID	0 1 3 3 2	0 1 3 4 1	0 1 3 4 2	0 1 3 5 1	0 1 3 5 2	0 1 7 6 1	0 1 7 6 2	0 1 7 7 1	0 1 7 7 2	0 1 7 8 1	0 1 7 8 2	0 1 7 9 1	0 1 8 9 2	0 1 8 0 1	0 2 1 4 1	0 2 2 4 2	0 2 2 5 1	0 2 2 5 2	0 2 2 6 1	0 2 2 6 2	0 2 2 7 1	0 2 2 7 2		
	* TOTALS																								
Ulcer											3	4		4											4 3.5
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Amyloid Deposition																									1 2.0
Hemorrhage												2													1 2.0
Inflammation												2													1 2.0
Tongue																					+				2
CARDIOVASCULAR SYSTEM																									
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Cardiomyopathy		2		2	2	2		2	2			3	2	1	2	2		2	2	2	2	2	2	2	38 2.0
Dilatation																									1 4.0
Atrium, Thrombosis				X				X			X									X			X		11
Myocardium, Hypertrophy										2															1 2.0
ENDOCRINE SYSTEM																									
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Angiectasis																									1 3.0
Hyperplasia, Focal									2									2							2 2.0
Hypertrophy, Focal					3							3													6 2.3
Thrombosis																									1 2.0
Vacuolization Cytoplasmic				3		3	2				3	2	3		1										11 2.2
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Angiectasis						3													2						2 2.5
* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade + .. Tissue examined microscopically X .. Lesion present I .. Insufficient tissue M .. Missing tissue A .. Autolysis precludes evaluation BLANK .. Not examined microscopically 1-4 .. Lesion qualified as: 1) Minimal 3) Moderate 2) Mild 4) Marked																									

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST	0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 4	0 6 6 9	0 6 6 4	0 7 0 4	0 6 7 3	0 7 3 7	0 6 4 8	0 4 2 0	0 7 2 2	0 5 0 2	0 5 3 6	0 5 5 5	0 7 2 4	0 6 2 6	0 7 4 4	0 7 4 4	0 7 4 4	0 6 9 0			
	ANIMAL ID	0 1 3 3 2	0 1 3 4 1	0 1 3 4 2	0 1 3 5 1	0 1 3 5 2	0 1 7 6 1	0 1 7 6 2	0 1 7 7 1	0 1 7 7 2	0 1 7 8 1	0 1 7 8 2	0 1 8 9 1	0 1 8 9 2	0 1 9 0 1	0 1 9 0 2	0 2 1 4 1	0 2 2 1 2	0 2 2 5 1	0 2 2 6 2	0 2 2 6 1	0 2 2 7 2	0 2 2 7 1	0 2 2 7 2			
																										* TOTALS	
Hyperplasia, Focal		2																								2	2.0
Islets, Pancreatic Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 1 3.0	
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	47	
Pituitary Gland Angiectasis Pigmentation Pars Distalis, Hyperplasia Pars Intermedia, Cyst		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 1 2.0 1 2.0 2 3.0 2	
Thyroid Gland C-cell, Hyperplasia Follicle, Cyst		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 4 1.5 2	

GENERAL BODY SYSTEM

Tissue NOS Fat, Necrosis	+ 2																								1 1 2.0
-----------------------------	--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	------------

GENITAL SYSTEM

Epididymis Atrophy Exfoliated Germ Cell Hypospermia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 1 3.0 26 2.3 29 3.4
Penis	1																								1

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TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST	0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 4	0 6 6 9	0 6 9 4	0 7 0 4	0 6 7 7	0 7 3 3	0 6 4 7	0 4 8 0	0 7 2 2	0 5 0 2	0 5 3 6	0 5 5 5	0 7 2 4	0 6 2 6	0 7 4 4	0 7 4 4	0 6 4 0		
	ANIMAL ID	0 1 3 3 2	0 1 3 4 1	0 1 3 4 2	0 1 3 5 1	0 1 3 5 2	0 1 7 6 1	0 1 7 6 2	0 1 7 7 1	0 1 7 7 2	0 1 7 8 1	0 1 7 8 2	0 1 7 9 1	0 1 7 9 2	0 1 8 0 1	0 1 8 0 2	0 2 1 4 1	0 2 2 4 2	0 2 2 5 1	0 2 2 5 2	0 2 2 6 1	0 2 2 6 2	0 2 2 7 1	0 2 2 7 2	
	* TOTALS																								
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Inflammation	1	2	3		3		3	4	1	2	4	2	3	1	3	3	4		4	2		2		34	2.6
Duct, Ectasia	2	2			2							3		3					3					14	2.7
Glandular, Hyperplasia																								1	2.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Inflammation	3				2	3	2	2			2		2	4	2	2		1	3	2	2	2	2	32	2.2
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Atrophy		2				2		2														2		9	2.0
Decreased Secretory Fluid																								1	4.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Interstitial Cell, Hyperplasia				4																				3	3.0
Seminiferous Tubule, Atrophy			4			3		4	4					4						4				13	3.2

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Atrophy										3														2	2.5	
Hyperplasia																								1	3.0	
Lymph Node		+	+	+						+				+	+	+	+			+	+		+	21		
Lumbar, Medulla, Sinus, Dilatation																								1	2.0	
Mediastinal, Degeneration, Cystic																				2				3	2.3	
Mediastinal, Hemorrhage																				2				1	2.0	
Mediastinal, Medulla, Sinus, Dilatation										2														1	2.0	
Medulla, Pancreatic, Sinus, Dilatation										2														2	3.0	
Renal, Degeneration, Cystic													3											4	3.5	

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FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST	0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 4	0 6 6 9	0 6 6 4	0 7 0 4	0 6 7 3	0 7 3 7	0 6 4 0	0 4 8 2	0 7 2 2	0 5 0 2	0 5 3 6	0 5 5 5	0 7 2 4	0 6 2 6	0 7 4 4	0 7 4 4	0 7 4 4	0 6 9 0			
	ANIMAL ID	0 1 3 3 2	0 1 3 4 1	0 1 3 4 2	0 1 3 5 1	0 1 3 5 2	0 1 7 6 1	0 1 7 6 2	0 1 7 7 1	0 1 7 7 2	0 1 7 8 1	0 1 7 8 2	0 1 7 9 1	0 1 8 9 2	0 1 8 9 0	0 2 0 2	0 2 0 1	0 2 2 4 2	0 2 2 5 1	0 2 2 5 2	0 2 2 6 1	0 2 2 6 2	0 2 2 7 1	0 2 2 7 2			
	* TOTALS																										
Renal, Hemorrhage		2																								1	2.0
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Degeneration, Cystic						2			2										3	3		4	2		12	2.6	
Hemorrhage													3												1	3.0	
Hyperplasia, Lymphoid																				3					6	2.5	
Infiltration Cellular, Plasma Cell								4																	6	3.0	
Inflammation																									1	2.0	
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Degeneration, Cystic																							2		4	2.3	
Hemorrhage														2											3	2.3	
Infiltration Cellular, Plasma Cell							3																		1	3.0	
Medulla, Sinus, Dilatation																									1	3.0	
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Accessory Spleen																				X					4		
Hematopoietic Cell Proliferation						3																			1	3.0	
Infarct			X					X	X		X						X					X			10		
Pigmentation		3										3													3	2.7	
Capsule, Hematocyst															X										1		
Red Pulp, Atrophy		3										3													3	3.0	
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Atrophy		2	2			2		2	3		2	3			2	3			2	2	3	2	2	2	35	2.3	
Cyst																									1		

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	M	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	43
---------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL		DAY ON TEST																										
		0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 4	0 6 6 9	0 6 9 4	0 7 0 4	0 6 7 3	0 7 3 7	0 6 4 0	0 7 2 2	0 5 0 2	0 5 3 6	0 5 5 5	0 7 2 4	0 6 2 6	0 7 4 4	0 7 4 4	0 7 4 4	0 6 9 0					
		0 1 3 3 2	0 1 3 4 1	0 1 3 4 2	0 1 3 5 1	0 1 3 5 2	0 1 7 6 1	0 1 7 6 2	0 1 7 7 1	0 1 7 7 2	0 1 7 8 1	0 1 7 8 2	0 1 7 9 1	0 1 8 9 2	0 1 8 0 1	0 1 8 0 2	0 2 1 4 1	0 2 2 4 2	0 2 2 5 1	0 2 2 5 2	0 2 2 6 1	0 2 2 6 2	0 2 2 7 1	0 2 2 7 2				
ANIMAL ID																										* TOTALS		
Galactocoele		X					X			X					X				X	X					11			
Lactation		2	2	1				2		3				2				2	2	3	2		2		23 2.1			
Alveolus, Hyperplasia			2	1				2	2	1											2	2			14 1.9			
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48			
Cyst Epithelial Inclusion								X																	2			
Subcutaneous Tissue, Metaplasia, Osseous																				2					1 2.0			
MUSCULOSKELETAL SYSTEM																												
Bone																										1		
Vertebra, Fracture																										1		
Bone, Femur		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48			
Skeletal Muscle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48			
NERVOUS SYSTEM																												
Brain, Brain Stem		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48			
Hemorrhage																					2				1 2.0			
Hypothalamus, Compression		2				2			1	2		3							3	2					16 2.4			
Brain, Cerebellum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48			
Brain, Cerebrum		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48			
Ventricle, Dilatation						2				2		2							2						5 2.0			
Peripheral Nerve, Sciatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48			
Axon, Degeneration			1					1				1			1			1		1	1	1			11 1.0			

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FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST	0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 4	0 6 6 9	0 6 9 4	0 7 0 4	0 6 7 3	0 7 4 7	0 4 8 0	0 7 2 2	0 5 0 2	0 5 3 6	0 5 5 5	0 7 2 4	0 6 2 6	0 7 4 4	0 7 4 4	0 7 4 4	0 6 9 0	
	ANIMAL ID	0 1 3 3 2	0 1 3 4 1	0 1 3 4 2	0 1 3 5 1	0 1 3 5 2	0 1 7 6 1	0 1 7 6 2	0 1 7 7 1	0 1 7 7 2	0 1 7 8 1	0 1 7 8 2	0 1 7 9 1	0 1 8 9 2	0 1 8 0 1	0 2 1 4 1	0 2 2 4 2	0 2 2 5 1	0 2 2 6 2	0 2 2 6 1	0 2 2 7 2	0 2 2 7 1	0 2 2 7 2	
	* TOTALS																							
Spinal Cord, Cervical Axon, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 22 1.0
Spinal Cord, Lumbar Axon, Degeneration Nerve, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 1 1.0 16 1.0	
Spinal Cord, Thoracic Axon, Degeneration Nerve, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 32 1.0 2 1.0	
RESPIRATORY SYSTEM																								
Lung Granuloma Inflammation Alveolus, Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 1 2.0 1 2.0 6 1.3	
Nose Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 6 2.3	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
SPECIAL SENSES SYSTEM																								
Eye Phthisis Bulbi Retina, Degeneration Sclera, Metaplasia, Osseous	+	+	+	+	+	+	M	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46 1 2 3.5 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

DAY ON TEST		0744	0726	0698	0586	0744	0654	0669	0664	0707	0637	0640	0482	0750	0502	0536	0555	0724	0626	0744	0744	0744	0690	
		0744	0726	0698	0586	0744	0654	0669	0664	0707	0637	0640	0482	0750	0502	0536	0555	0724	0626	0744	0744	0744	0690	
ANIMAL ID		01332	01341	01342	01351	01352	01761	01762	01771	01778	01788	01799	01790	01802	01801	02141	02242	02251	02252	02261	02262	02271	02272	* TOTALS
		01332	01341	01342	01351	01352	01761	01762	01771	01778	01788	01799	01790	01802	01801	02141	02242	02251	02252	02261	02262	02271	02272	

Harderian Gland
 Infiltration Cellular, Lymphocyte

+
 1 2 1.0

Zymbal's Gland

+ 1

URINARY SYSTEM

Kidney
 Accumulation, Hyaline Droplet
 Hydronephrosis
 Nephropathy
 Pigmentation
 Cortex, Inflammation, Chronic

+
 4 1 4.0
 2 2.0
 3 3 2 2 3 2 3 2 3 2 4 2 2 4 2 2 3 3 3 3 3 2
 48 2.6
 1 3.0
 2 1 2.0

Urinary Bladder

+ 48

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

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

ALIMENTARY SYSTEM

| | |
|--|---|
| Esophagus | + |
| Intestine Large, Cecum | + | + | + | + | + | A | + |
| Intestine Large, Colon
Lymphoid Tissue, Hyperplasia | + | A | + | + | + | + | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + | + | + | + | + | A | + |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | A | + |
| Intestine Small, Jejunum
Inflammation
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |
| Liver | + |
| Angiectasis | |
| Cyst | |
| Degeneration, Cystic | | | | | 2 | | | | | 2 | | | | | 1 | 2 | | | | | | | | | | | |
| Eosinophilic Focus | |
| Granuloma | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | |
| Hepatodiaphragmatic Nodule | |
| Necrosis, Coagulative | |
| Vacuolization Cytoplasmic | | | | | | | 2 | 2 | | 4 | | | | | | | | | | | | | | | | | |

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

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | 0
6
8
0 | 0
5
6
2 | 0
7
1
2 | 0
7
3
3 | 0
5
6
9 | 0
3
7
6 | 0
6
7
0 | 0
7
4
4 | 0
6
4
1 | 0
7
4
4 | 0
5
2
6 | 0
7
4
4 | 0
7
4
4 | 0
7
2
6 | 0
6
3
0 | 0
5
5
4 | 0
7
4
4 | 0
7
4
4 | 0
5
1
5 | 0
7
4
4 | 0
7
1
9 | 0
5
8
5 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | males
(cont...) |
|---|-------------|------------------|--------------------|
| | ANIMAL ID | 0
0
4
1
1 | 0
0
4
1
2 | 0
0
4
2
1 | 0
0
4
2
2 | 0
0
4
3
1 | 0
0
4
3
2 | 0
0
4
4
1 | 0
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4
4
2 | 0
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4
5
1 | 0
0
8
6
1 | 0
0
8
6
2 | 0
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8
7
1 | 0
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8
7
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1
2 | 0
1
2
2
1 | 0
1
2
2
2 | 0
1
2
2
1 | 0
1
2
2
2 | | |
| | | | |
| Bile Duct, Hyperplasia | | 2 | | 3 | | | 2 | 1 | | 3 | | 1 | 1 | | | | | | | | 2 | 2 | 3 | 2 | | | |
| Caudate Lobe, Developmental Malformation | | | |
| Centrilobular, Degeneration | | | |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Mesentery | | | | | | + | | | | | | | | | | | | | | | | | | | | + | |
| Polyarteritis | | | |
| Fat, Necrosis | | | | | | 3 | | | | | | | | | | | | | | | | | | | | 3 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | + | + | | | | | | | | |
| Pancreas | | + | + |
| Accessory Spleen | | | |
| Polyarteritis | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Acinar Cell, Atrophy | | 2 | 1 | | | | | 2 | | 2 | | 3 | 2 | | | 2 | 2 | | | 2 | | | | | | | |
| Acinar Cell, Hyperplasia | | | |
| Salivary Glands | | + | + |
| Stomach, Forestomach | | + | + | + | + | A | + | + |
| Edema | | 3 | | | 4 | | | | | 3 | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | 2 | | | | | | 2 | 4 | 4 | | | | | | | | | |
| Inflammation | | | |
| Ulcer | | | | 2 | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | + | + | + | + | A | + | + |
| Inflammation | | | 2 | | | |

CARDIOVASCULAR SYSTEM

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

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | 0680 | 0562 | 0712 | 0733 | 0569 | 0376 | 0670 | 0744 | 0641 | 0744 | 0526 | 0744 | 0744 | 0726 | 0630 | 0555 | 0744 | 0744 | 0515 | 0744 | 0719 | 0585 | 0744 | 0744 | 0744 | males
(cont...) | |
|---|-------------|--------------------|--|
| | ANIMAL ID | 00411 | 00412 | 00413 | 00414 | 00415 | 00416 | 00417 | 00418 | 00419 | 00420 | 00421 | 00422 | 00423 | 00424 | 00425 | 00426 | 00427 | 00428 | 00429 | 00430 | 00431 | 00432 | 00433 | 00434 | 00435 | | |
| | | | |
| Blood Vessel | | + | | |
| Heart | | + | | |
| Cardiomyopathy | | 2 | 2 | 2 | | 2 | 1 | | 2 | 2 | | 2 | 2 | 2 | 2 | | 3 | 2 | | 2 | | 1 | | | | | | |
| Dilatation | | | |
| Atrium, Thrombosis | | | | | X | | | | | X | | | X | X | | | | | X | X | | | | X | | | | |
| ENDOCRINE SYSTEM | | | |
| Adrenal Cortex | | + | | |
| Angiectasis | | | | | | | 1 | | | | | | | | | | | | 2 | | | 2 | | 2 | | | | |
| Hypertrophy, Focal | | | | | | | | | 2 | | | 2 | | | | | | | 2 | 2 | | | | | | | | |
| Vacuolization Cytoplasmic | | | 1 | | 3 | 1 | | | | | | | | 3 | | 2 | | | | | | | | | | 3 | | |
| Adrenal Medulla | | + | | |
| Angiectasis | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | |
| Islets, Pancreatic | | + | | |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland | | + | | |
| Angiectasis | | | |
| Thrombosis | | 4 | | | | |
| Pars Distalis, Cyst | | | | | | | | X | | | | X | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | 4 | | 2 | | | | |
| Thyroid Gland | | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| C-cell, Hyperplasia | | 2 | | |

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 2) Mild 4) Marked

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | | DAY ON TEST | | | | | males
(cont...) |
|---|--|-----------------------|--|--|--|--------------------|
| | | 0
6
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| ANIMAL ID | | 0
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3 | 0
1
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2
1 | | | | |

Follicle, Cyst

X

X

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Coagulating Gland

+

Epididymis

+ +

Atrophy

Exfoliated Germ Cell

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

Hypospermia

4 3 4 4 3 4 4 3 4 2 4 4 2

Serosa, Cyst

Preputial Gland

+ +

Atrophy

Inflammation

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

Duct, Ectasia

3 2 3 3 3

Glandular, Hyperplasia

3

Prostate

+ +

Inflammation

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

Seminal Vesicle

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

Atrophy

2 2 2 2 3 2 2 3 3 3

Decreased Secretory Fluid

3 3

Lumen, Distended

3

Testes

+ +

* .. 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | | DAY ON TEST | | | | | males
(cont...) |
|---|--|-----------------------|--|--|--|--------------------|
| | | 0
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6
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1 | 0
7
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4 | 0
5
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6 | 0
7
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4 | 0
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| ANIMAL ID | | 0
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1 | | | | |

Polyarteritis 2
 Interstitial Cell, Hyperplasia 1 2
 Seminiferous Tubule, Atrophy 2 4 4 4

HEMATOPOIETIC SYSTEM

| |
|-------------------------------------|
| Bone Marrow | + |
| Atrophy | 3 | | | | | | | | | | | | | 3 | | | | | | | | | | | 4 | |
| Hyperplasia |
| Lymph Node | | | + | + | | + | + | | + | | | | + | + | | | | + | + | | + | | | | | |
| Deep Cervical, Degeneration, Cystic | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Lumbar, Degeneration, Cystic | | | | | | | 4 | | | | | | 3 | | | | | | | | | | | | | |
| Mediastinal, Degeneration, Cystic |
| Mediastinal, Hemorrhage |
| Medulla, Renal, Sinus, Dilatation |
| Pancreatic, Degeneration, Cystic |
| Pancreatic, Hyperplasia, Lymphoid |
| Renal, Degeneration, Cystic | | | | 4 | | | | | | | | 3 | | | | | 3 | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid |
| Lymph Node, Mandibular | + |
| Degeneration, Cystic | | | | | | | | | | 3 | | | 3 | 2 | | | 3 | 3 | | | | | | 4 | | |
| Hemorrhage |
| Hyperplasia, Lymphoid |
| Infiltration Cellular, Plasma Cell | | | | | | 2 | | | | | | | | | | | 3 | 3 | | | 3 | | | | | 3 |
| Lymph Node, Mesenteric | + |
| Degeneration, Cystic | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid |

* .. 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. 20313 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Acrylamide
CAS Number: 79-06-1

Date Report Requested: 01/15/2010
Time Report Requested: 14:38:46
First Dose M/F: 05/23/05 / 05/23/05
Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | 0
6
8
0 | 0
5
6
2 | 0
7
1
2 | 0
7
3
3 | 0
5
6
9 | 0
3
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6 | 0
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7
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7
4
4 | 0
6
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1 | 0
7
4
4 | 0
5
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6 | 0
7
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4 | 0
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6 | 0
6
3
0 | 0
5
5
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7
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4 | 0
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4 | 0
5
1
5 | 0
7
4
4 | 0
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1
9 | 0
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8
5 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | males
(cont...) | |
|---|-------------|--------------------|-----------------------|
| | ANIMAL ID | 0
0
4
1
1 | 0
0
4
1
2 | 0
0
4
1
1 | 0
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2
2 | 0
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2 | 0
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2
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1 | 0
1
2
2
2 | | 0
1
2
3
1 |
| | | | |
| Spleen | | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | |
| Developmental Malformation | | X | | |
| Hematopoietic Cell Proliferation | | | 2 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Infarct | | | | | | | | X | | | X | | | | X | | | | | | | | | | | | |
| Pigmentation | | | |
| Red Pulp, Atrophy | | | |
| Thymus | | + | |
| Atrophy | | 2 | 2 | | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | | 2 | 2 | 4 | 2 | 1 | | 2 | 2 | 2 | 3 | 2 | 2 | |
| INTEGUMENTARY SYSTEM | | | |
| Mammary Gland | | + | M | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Galactocoele | | | | X | | | | | | | | | | | | | | X | | | X | | | | | | |
| Inflammation | | | 3 | | |
| Lactation | | | | | 2 | | | | | | 1 | | | | 3 | | | 1 | 2 | | 3 | | | | 3 | | |
| Alveolus, Hyperplasia | | | | | | | | | | | 1 | | 2 | | 3 | | | 3 | 1 | | 2 | | | | 4 | | |
| Skin | | + | |
| Inflammation | | | |
| Epidermis, Hyperplasia | | | 2 | | | | |
| MUSCULOSKELETAL SYSTEM | | | |
| Bone, Femur | | + | |
| Skeletal Muscle | | + | |

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

+ .. Tissue examined microscopically

X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | | DAY ON TEST | | | males
(cont...) |
|---|--|-----------------------|--|--------------------|
| | | 0
6
8
0 | 0
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6
2 | 0
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| ANIMAL ID | | 0
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NERVOUS SYSTEM

| | |
|--|---|
| Brain, Brain Stem
Hemorrhage
Hypothalamus, Compression
Ventricle, Dilatation | + |
| | | | 2 | | | | | 2 | | 2 | | | | | | | | 3 | | | | | | |
| Brain, Cerebellum | + |
| Brain, Cerebrum
Hydrocephalus
Perivascular, Infiltration Cellular, Mixed Cell,
Focal
Ventricle, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | + | + | + | + | + | + | + | + |
| | | | | | | | | 2 | | 2 | | | | | 2 | | | | | | | | | |
| Peripheral Nerve, Sciatic
Axon, Degeneration | + |
| | | | 1 | | | | | | | 1 | | 1 | | 1 | | | | | | | | | | |
| Spinal Cord, Cervical
Hemorrhage
Axon, Degeneration
Nerve, Degeneration | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | 1 | | 1 | | 1 | | 1 | 1 | | 1 | | | | 1 | |
| Spinal Cord, Lumbar
Axon, Degeneration
Nerve, Degeneration | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | 1 | | | | 1 | | | | | 1 | 1 | | |
| Spinal Cord, Thoracic
Hemorrhage, Focal
Axon, Degeneration | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | | | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 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. 20313 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Acrylamide
CAS Number: 79-06-1

Date Report Requested: 01/15/2010
Time Report Requested: 14:38:46
First Dose M/F: 05/23/05 / 05/23/05
Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | | males
(cont...) |
|---|-------------|--------------------|
| | 0680 | 0562 | 0712 | 0733 | 0569 | 0376 | 0670 | 0744 | 0641 | 0744 | 0526 | 0744 | 0744 | 0726 | 0630 | 0555 | 0744 | 0744 | 0515 | 0744 | 0719 | 0585 | 0744 | 0744 | 0744 | 0744 | | | |
| | 004111 | 004412 | 004411 | 004422 | 004431 | 004432 | 004441 | 004442 | 004451 | 004452 | 004811 | 004822 | 004831 | 004842 | 004851 | 004862 | 004871 | 004882 | 004891 | 004892 | 004901 | 004902 | 001111 | 001122 | 001131 | 001142 | 001151 | 001162 | |

Nerve, Degeneration 1

RESPIRATORY SYSTEM

| | |
|---|---|
| Lung | + | |
| Granuloma |
| Inflammation |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | 2 | | | | | | 3 | | | 4 | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | | | | | | | | | 2 | | | | | | 3 | | | 3 | | | | | | |
| Nose | + |
| Inflammation | | | 1 | | | | | | | | | | 1 | 2 | | | | | | | | | | | | |
| Trachea | + |

SPECIAL SENSES SYSTEM

| | |
|-----------------------------------|--|
| Eye | + | + | + | + | + | A | + | |
| Retina, Degeneration | 2 | | | |
| Sclera, Metaplasia, Osseous | 3 | | | |
| Harderian Gland | + | |
| Infiltration Cellular, Lymphocyte | | 1 | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | |

URINARY SYSTEM

| | |
|-------------|--|
| Kidney | + | |
| Cyst | X | | | |
| Nephropathy | 4 | 2 | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 4 | | 3 | 4 | 2 | 2 | 2 | 4 | 4 | 2 | 4 | 1 | 2 | 3 | 2 | 3 | | | |
| Urethra | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion 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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 Species/Strain: RATS/F 344/NCTR

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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | |
|---|-------------|
| | 0680 | 0562 | 0712 | 0733 | 0569 | 0376 | 0670 | 0744 | 0641 | 0744 | 0526 | 0744 | 0744 | 0726 | 0630 | 0554 | 0744 | 0744 | 0515 | 0744 | 0719 | 0585 | 0744 | 0744 |
| ANIMAL ID | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 |
| Bulbourethral Gland, Dilatation | |
| Urinary Bladder Dilatation | + | + |

males
(cont...)

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | |
|---|-----------------------|------------------|
| | 0
7
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| ANIMAL ID | 0
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2 | |
| * TOTALS | | |

ALIMENTARY SYSTEM

| | |
|--|----------------------|
| Esophagus | + | 48 |
| Intestine Large, Cecum | + | 47 |
| Intestine Large, Colon
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | 47
2 2.5 |
| Intestine Large, Rectum | + | 48 |
| Intestine Small, Duodenum | + | 47 |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | 47
2 2.5 |
| Intestine Small, Jejunum
Inflammation
Lymphoid Tissue, Hyperplasia | + | 2 | + | 46
1 2.0
1 2.0 |
| Liver | + | 48 |
| Angiectasis | | 1 2.0 |
| Cyst | | 1 |
| Degeneration, Cystic | | 1 | | | | | | | | 3 | | | | | | | | | | | | | 2 | 7 1.9 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Granuloma | 1 | | | | | | | | | | | | | | 2 | | | | 1 | 2 | | | | 6 1.5 |
| Hematopoietic Cell Proliferation | | | | | | | | 2 | | | | | 2 | | | | | | | | | | | 2 2.0 |
| Hepatodiaphragmatic Nodule | | X | | | 1 |
| Necrosis, Coagulative | | 1 3.0 |
| Vacuolization Cytoplasmic | | | | | 4 | | | | | | 3 | 2 | | | | 2 | | | | | | | | 10 2.6 |

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 X .. Lesion present
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 M .. Missing tissue
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 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | | | | |
|---|-----------------------|---|----|-----|
| | 0
7
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1
2 | | | |
| * TOTALS | | | | |
| Bile Duct, Hyperplasia | 1 | | 1 | | 2 | | 2 | | | | 2 | | 3 | | | | 2 | | 2 | | 2 | | 2 | | 21 | 2.0 |
| Caudate Lobe, Developmental Malformation | | | 1 | |
| Centrilobular, Degeneration | | 1 | 2.0 |
| Left Lateral Lobe, Developmental Malformation | | | 2 | |
| Mesentery | + | + | + | | | | | + | | | | | | | | | + | | | | | | | 7 | | |
| Polyarteritis | | | 2 | | 1 | 2.0 |
| Fat, Necrosis | 3 | 2 | 2 | | | | | 3 | | | | | | | | | 2 | | | | | | | | 7 | 2.6 |
| Oral Mucosa | | 2 | |
| Pancreas | + | + | 48 | |
| Accessory Spleen | | 1 | |
| Polyarteritis | | 1 | 2.0 |
| Acinar Cell, Atrophy | | | | | 3 | | 2 | | 2 | | 2 | | | | | | 1 | | 2 | | | | | | 15 | 2.0 |
| Acinar Cell, Hyperplasia | | 1 | 2.0 |
| Salivary Glands | + | 48 | |
| Stomach, Forestomach | + | 47 | |
| Edema | | | 3 | 3.3 |
| Hyperplasia | | 4 | 3.0 |
| Inflammation | | | | | 4 | | | | | | 3 | | | | | | | | | | | | | | 2 | 3.5 |
| Ulcer | | | 4 | 3.0 |
| Stomach, Glandular | + | 47 | |
| Inflammation | | 3 | 2.5 |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | | DAY ON TEST | | | | |
|---|--|-----------------------|------------------|----|-----|-----|
| | | 0
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1
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1
2 | | | | |
| | | * TOTALS | | | | |
| Blood Vessel | | + | + | 48 | | |
| Heart | | + | 48 | | | |
| Cardiomyopathy | | 2 | 2 | 1 | | 2 | 2 | | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | | 2 | 3 | 1 | 2 | 2 | | 36 | 2.0 | |
| Dilatation | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 | 2.0 | |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | X | | | | | | | | 8 | |
| ENDOCRINE SYSTEM | | | | | | |
| Adrenal Cortex | | + | 48 | | | |
| Angiectasis | | | | 2 | | | | | | | | | | | | | | | 1 | | | | | | 5 | 1.6 | |
| Hypertrophy, Focal | | | | | | 2 | | | | 1 | 2 | | | | 2 | | | | | | | | | | 8 | 1.9 | |
| Vacuolization Cytoplasmic | | | | 2 | 2 | | 2 | 3 | | | 2 | | | | | | | | | 3 | | | | | | 12 | 2.3 |
| Adrenal Medulla | | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | | |
| Angiectasis | | | | | | | | | | | | | | | 2 | | | | 1 | | 1 | | | | 4 | 1.5 | |
| Hyperplasia, Focal | | | | | | | | 2 | | | | | 2 | | | | | | | 2 | | | 4 | | 4 | 2.5 | |
| Islets, Pancreatic | | + | 48 | | | |
| Parathyroid Gland | | + | 47 | | | |
| Pituitary Gland | | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | | |
| Angiectasis | | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 | 2.0 | |
| Thrombosis | | | | 1 | 4.0 | |
| Pars Distalis, Cyst | | | | | X | | | | | | | | | | | | | | | | | | | | 3 | | |
| Pars Distalis, Hyperplasia | | | | 2 | 3.0 | |
| Thyroid Gland | | + | 47 | | | |
| C-cell, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 | 1.5 | |

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 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | 0
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4 | * TOTALS |
|---|-------------|------------------|----------|
| | ANIMAL ID | 0
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|----------------|---|---|
| Follicle, Cyst | X | 3 |
|----------------|---|---|

GENERAL BODY SYSTEM

| | | |
|------------|---|---|
| Tissue NOS | + | 1 |
|------------|---|---|

GENITAL SYSTEM

| | | |
|---------------------------|--------|--------|
| Coagulating Gland | 1 | |
| Epididymis | + | 48 | |
| Atrophy | | 2 | | | 2 | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Exfoliated Germ Cell | 3 | | | 2 | 2 | | | | | | 3 | | 2 | | 2 | 1 | | 2 | | | 2 | 2 | 23 2.1 | |
| Hypospermia | 3 | 4 | 4 | | 2 | | 4 | | 4 | | 3 | 4 | 2 | 4 | | 3 | 4 | | 3 | | 2 | 3 | 4 | 30 3.4 |
| Serosa, Cyst | | | | | | | | | | | | | | X | | | | | | | | | 1 | |
| Preputial Gland | + | 48 | |
| Atrophy | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation | 1 | 3 | 3 | 3 | 3 | 3 | | | | 2 | 3 | 3 | 2 | 3 | 2 | 1 | | 3 | 3 | | | | 32 2.6 | |
| Duct, Ectasia | | 3 | 3 | | 3 | | | | | 2 | | | | 3 | | | | | | | | | 11 2.6 | |
| Glandular, Hyperplasia | 1 3.0 | |
| Prostate | + | 48 | |
| Inflammation | 1 | 3 | | | 2 | 2 | | | 2 | | 2 | 2 | | 1 | | 3 | 2 | 2 | 2 | 2 | | 2 | 28 2.1 | |
| Seminal Vesicle | + | 47 | |
| Atrophy | | 2 | 2 | | | | 2 | | | | | | 2 | | | | | | | | | 2 | 9 2.0 | |
| Decreased Secretory Fluid | | | | | 2 | | | | | | 3 | | | | | | | | | | | | 5 2.6 | |
| Lumen, Distended | 1 3.0 | |
| Testes | + | 48 | |

* .. 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. 20313 - 05

Test Type: CHRONIC

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Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Acrylamide

CAS Number: 79-06-1

Date Report Requested: 01/15/2010

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

Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | 0
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| | | | | * TOTALS |
| Polyarteritis | | | 1 | 2.0 |
| Interstitial Cell, Hyperplasia | | | 2 | 1.5 |
| Seminiferous Tubule, Atrophy | 3 | 4 | | | | 4 | 4 | | 2 | 2 | | | | | | 4 | 2 | | | | 15 | 3.4 | | |

HEMATOPOIETIC SYSTEM

| | | |
|-------------------------------------|----|-----|
| Bone Marrow | + | 48 | |
| Atrophy | | | | 2 | | | | | | | | | | | | | | | | 3 | | | 5 | 3.0 |
| Hyperplasia | | | | | | | | | | | | 3 | | | | 2 | | | | | | | 2 | 2.5 |
| Lymph Node | + | | | + | | | + | | | + | + | + | | | | + | + | | | + | + | + | 22 | |
| Deep Cervical, Degeneration, Cystic | | 1 | 3.0 |
| Lumbar, Degeneration, Cystic | 2 | 3.5 |
| Mediastinal, Degeneration, Cystic | | | | | | | | | | | | | 3 | | | | | | | | | | 1 | 3.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | 1 | 2.0 |
| Medulla, Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | 2 | | | | | | | 1 | 2.0 |
| Pancreatic, Degeneration, Cystic | | | | | | | | | | | | | | | | | 2 | | | | | | 1 | 2.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | 2 | | | | 1 | 2.0 |
| Renal, Degeneration, Cystic | 2 | | | | | | | | | | | 4 | | | | | | | | | | | 5 | 3.2 |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | 2 | | | | | 2 | | | | | | | | 2 | 2.0 |
| Lymph Node, Mandibular | + | 48 | |
| Degeneration, Cystic | 2 | | 2 | | | | | | | | 2 | | | | | 2 | | | 3 | | | | 11 | 2.6 |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | 2.0 |
| Hyperplasia, Lymphoid | 2 | | 1 | 2.0 |
| Infiltration Cellular, Plasma Cell | | 3 | 3 | | | 3 | | | | | | | | | | 2 | 2 | 4 | 2 | | | | 12 | 2.8 |
| Lymph Node, Mesenteric | + | 48 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | 3 | | | | 2 | 2.5 |
| Hyperplasia, Lymphoid | | 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

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| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | 0
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| | * TOTALS | | | | |
| Spleen | | + | | 47 | |
| Congestion | | 3 | | 1 3.0 | |
| Developmental Malformation | | | | 1 | |
| Hematopoietic Cell Proliferation | | | | | | | | | 2 | 2 | | | | | 3 | | | | | | | | | | 4 2.3 | |
| Hyperplasia, Lymphoid | | | | 1 2.0 | |
| Infarct | | | | | | X | X | X | | | | | X | | | | X | X | | | | | X | X | 11 | |
| Pigmentation | | 3 | | | | 2 | | | | | | 3 | | | | | 3 | | | | | | | | 4 2.8 | |
| Red Pulp, Atrophy | | | | 2 | | | | | | | | 3 | | | | | | | | | | | | | 2 2.5 | |
| Thymus | | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | | 46 | |
| Atrophy | | 2 | 2 | 2 | | 3 | 2 | | 2 | 2 | | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | | 2 | | 40 2.2 | |
| INTEGUMENTARY SYSTEM | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | | 43 | |
| Galactocoele | | | X | | | | | | | | | | | | | | | X | | X | | | X | | 7 | |
| Inflammation | | | | 1 3.0 | |
| Lactation | | 2 | 2 | | | 1 | 2 | 2 | | 2 | 2 | | 3 | 2 | 1 | | 3 | | | 2 | | | | | 19 2.1 | |
| Alveolus, Hyperplasia | | 2 | 2 | | | | | | | 2 | | | 3 | | | | | | 2 | | | | | | 12 2.3 | |
| Skin | | + | | 48 | |
| Inflammation | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 | |
| Epidermis, Hyperplasia | | | | 1 2.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | |
| Bone, Femur | | + | | 48 | |
| Skeletal Muscle | | + | | 48 | |

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue

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| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | | DAY ON TEST | | | |
|---|--|-----------------------|----------|------------------|
| | | 0
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| ANIMAL ID | | 0
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2 | * TOTALS | |

NERVOUS SYSTEM

| | |
|--|--------------------------------|
| Brain, Brain Stem
Hemorrhage
Hypothalamus, Compression
Ventricle, Dilatation | + | 48
1 1.0
13 2.3
1 2.0 |
| Brain, Cerebellum | + | 48 |
| Brain, Cerebrum
Hydrocephalus
Perivascular, Infiltration Cellular, Mixed Cell,
Focal
Ventricle, Dilatation | + | 48
1 1.0
1 1.0
6 2.0 |
| Peripheral Nerve, Sciatic
Axon, Degeneration | + | 48
7 1.0 |
| Spinal Cord, Cervical
Hemorrhage
Axon, Degeneration
Nerve, Degeneration | + | 47
1 1.0
20 1.0
3 1.0 |
| Spinal Cord, Lumbar
Axon, Degeneration
Nerve, Degeneration | + | 47
5 1.0
20 1.0 |
| Spinal Cord, Thoracic
Hemorrhage, Focal
Axon, Degeneration | + | 47
1 1.0
25 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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| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | | DAY ON TEST | | | |
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| | | | | | * TOTALS |

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|---------------------|---|---|-----|
| Nerve, Degeneration | 1 | 2 | 1.0 |
|---------------------|---|---|-----|

RESPIRATORY SYSTEM

| | | |
|---|----|-----|
| Lung | + | 48 | |
| Granuloma | 1 | | | 1 | 1.0 |
| Inflammation | | | | | 2 | | | | | | 2 | | | | | | | | | | | | | 2 | 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | 2 | | | | 5 | 2.6 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | 1 | 2 | | | | 6 | 2.0 |
| Nose | + | 48 | |
| Inflammation | 1 | 2 | | | 2 | | | | | 2 | | | | | | | | | | | | | 2 | 8 | 1.6 |
| Trachea | + | 48 | |

SPECIAL SENSES SYSTEM

| | | |
|-----------------------------------|----|-----|
| Eye | + | 47 | |
| Retina, Degeneration | | | | | | | 2 | | | | | | | | | | | | | | | | 2 | 3 | 2.0 |
| Sclera, Metaplasia, Osseous | 1 | 3.0 |
| Harderian Gland | + | 48 | |
| Infiltration Cellular, Lymphocyte | | 1 | | | | | 1 | | | | | | | 1 | | | | | | | 1 | | | 7 | 1.0 |

URINARY SYSTEM

| | | |
|-------------|----|-----|
| Kidney | + | 48 | |
| Cyst | 1 | |
| Nephropathy | 4 | 2 | 2 | 2 | 4 | 2 | 2 | 3 | 2 | 3 | 4 | 3 | 2 | 2 | 2 | 3 | 3 | 1 | 4 | 3 | 2 | 2 | 3 | 47 | 2.7 |
| Urethra | 1 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| FISCHER 344 RATS-NCTR RATS
MALE
0.175 ACRYL | DAY ON TEST | | 0
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| Bulbourethral Gland, Dilatation | | 1 2.0 | | | |
| Urinary Bladder Dilatation | | + | + | + | 48
2 2.5 |

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| DAY ON TEST | | 0 | |
|------------------------------------|--|--------------------|
| | | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 4 | 2 | 5 | 6 | 5 | 7 | 5 | 6 | | |
| FISCHER 344 RATS-NCTR RATS
MALE | | 4 | 2 | 4 | 4 | 3 | 3 | 3 | 4 | 0 | 3 | 7 | 2 | 2 | 4 | 4 | 4 | 4 | 7 | 4 | 7 | 3 | 6 | 1 | 1 | 6 | |
| | | 4 | 8 | 4 | 4 | 7 | 7 | 2 | 4 | 9 | 9 | 0 | 5 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 1 | 3 | 4 | 8 | 6 | 8 | |
| 0.0875 ACRYL | | 0 | males
(cont...) |
| | | 0 | |
| ANIMAL ID | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 0 | 0 | 6 | 6 | 7 | 7 | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

ALIMENTARY SYSTEM

| | |
|--|---|
| Esophagus | + |
| Intestine Large, Cecum | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + |
| Degeneration, Cystic |
| Eosinophilic Focus | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Eosinophilic Focus, Multiple |
| Granuloma | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Infiltration Cellular, Lymphocyte |
| Vacuolization Cytoplasmic | | | | | | | | 3 | | | | | | | | | | | | 3 | | | | | | | |
| Bile Duct, Hyperplasia | | 1 | | 2 | | 1 | 2 | 1 | 2 | | | | 1 | 2 | | 2 | | | | 2 | | | 2 | | 4 | | |
| Centrilobular, Necrosis |
| Hepatocyte, Hyperplasia | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |

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

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | | DAY ON TEST | 0 | males
(cont...) |
|--|--|-------------|--------------------|
| | | 4 | 6 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 5 | 6 | 5 | |
| ANIMAL ID | | 4 | 8 | 4 | 4 | 7 | 7 | 2 | 4 | 9 | 9 | 0 | 5 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 1 | 3 | 4 | 8 | 6 | 8 | |
| | | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 0 | 0 | 6 | 6 | 7 | 7 | 8 | 8 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| Oval Cell, Hyperplasia | | | |
| Mesentery | | | |
| Fat, Necrosis | | | |
| Pancreas | | + | + | |
| Infiltration Cellular, Lymphocyte | | | |
| Polyarteritis | | | |
| Acinar Cell, Atrophy | | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| Salivary Glands | | + | + | |
| Stomach, Forestomach | | + | + | |
| Edema | | | |
| Hyperplasia | | | |
| Inflammation | | | |
| Ulcer | | | |
| Stomach, Glandular | | + | + | |
| Edema | | | |
| Erosion | | | |
| Inflammation | | | |
| Ulcer | | | |
| Tongue | | | |
| 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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 2) Mild 4) Marked

TDMS No. 20313 - 05
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 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
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 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | DAY ON TEST | 0
7
4
4 | 0
6
2
8 | 0
7
4
4 | 0
7
4
4 | 0
6
3
7 | 0
6
3
7 | 0
5
3
2 | 0
7
4
4 | 0
6
0
9 | 0
7
3
9 | 0
6
7
0 | 0
7
2
5 | 0
5
2
2 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
4
7
4 | 0
2
4
6 | 0
5
7
1 | 0
6
3
3 | 0
5
6
4 | 0
7
1
8 | 0
5
1
6 | 0
6
6
8 | males
(cont...) |
|--|-------------|------------------|--------------------|
| | ANIMAL ID | 0
0
1
1
1 | 0
0
1
1
2 | 0
0
1
1
2 | 0
0
1
1
2 | 0
0
1
1
3 | 0
0
1
1
3 | 0
0
1
1
4 | 0
0
1
1
2 | 0
0
1
1
5 | 0
0
1
1
2 | 0
0
1
1
6 | 0
0
1
1
2 | 0
0
1
1
7 | 0
0
1
1
8 | 0
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2 | 0
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2 | 0
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2 | 0
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1 | 0
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2 | 0
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0
6 | 0
1
0
0
6 | 0
1
0
0
7 | 0
1
0
0
7 | 0
1
0
0
8 | | |
| | | | |
| Heart | | + | |
| Cardiomyopathy | | 2 | 2 | | 2 | 2 | 3 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | | | | | 1 | | |
| Atrium, Thrombosis | | | | X | | X | | | | | X | X | | | | | | | | | | X | X | | | | |
| ENDOCRINE SYSTEM | | | |
| Adrenal Cortex | | + | |
| Angiectasis | | 2 | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | 2 | 1 | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | 2 | | | | | 2 | | 2 | | | | | | | | | | | | | | |
| Necrosis, Coagulative | | | |
| Vacuolization Cytoplasmic | | | 2 | | | | | 3 | | | | | | 2 | | | | | | | | 2 | | | 3 | 2 | |
| Adrenal Medulla | | + | |
| Angiectasis | | | | | 2 | | |
| Hyperplasia, Focal | | | | | | | 3 | | | | | | | | 3 | | 3 | | | | | | | | | 2 | |
| Islets, Pancreatic | | + | |
| Parathyroid Gland | | + | |
| Cyst | | | X | | | | | |
| Pituitary Gland | | + | |
| Pars Distalis, Hyperplasia | | | | 2 | | |
| Pars Intermedia, Cyst | | | |
| Thyroid Gland | | + | |
| C-cell, Hyperplasia | | | | | | | | | | 2 | | + | + | + | + | + | + | + | + | + | | 1 | | | 2 | | |
| Follicle, 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. 20313 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | DAY ON TEST | | ANIMAL ID | males
(cont...) | |
|--|-----------------------|-----------|--------------------|------------------|
| | 0
7
4
4 | 0
6
2
8 | 0
7
4
4 | 0
7
4
4 | 0
6
3
7 | 0
6
3
7 | 0
5
3
2 | 0
7
4
4 | 0
6
0
9 | 0
7
3
9 | 0
6
7
0 | 0
7
2
5 | 0
5
2
2 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
4
7
4 | 0
2
4
6 | 0
5
7
1 | 0
6
3
3 | 0
5
6
4 | 0
7
1
8 | 0
5
1
6 | | | 0
6
6
8 |
| | 0
0
1
1
1 | 0
0
1
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2 | 0
0
1
1
2 | 0
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1
2 | 0
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1
3 | 0
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2 | 0
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4 | 0
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2 | 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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9 | 0
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1
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8 | 0
0
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7 | 0
0
1
1
6 | 0
0
1
1
5 | 0
0
1
1
4 | 0
0
1
1
3 | 0
0
1
1
2 | 0
0
1
1
1 | 0
0
1
1
0 | 0
0
1
1
9 | | | |

Follicular Cell, Hyperplasia 1

GENERAL BODY SYSTEM

Tissue NOS +

GENITAL SYSTEM

| |
|---------------------------|
| Epididymis | + |
| Atrophy |
| Exfoliated Germ Cell | | 1 | | 2 | 2 | | | | | 4 | | 3 | | | | | | 3 | 4 | | 2 | 3 | 4 | | |
| Hypospermia | 4 | | 4 | 4 | 4 | | | 4 | | 4 | 4 | 4 | | 3 | | 4 | 4 | | 2 | 4 | 4 | | 4 | | |
| Fat, Necrosis |
| Preputial Gland | + |
| Atrophy |
| Inflammation | | 4 | 2 | 2 | 3 | | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 2 | 2 | 3 | | 1 | 2 | 3 | 3 | | |
| Duct, Ectasia | | | | | | 3 | | | | | 3 | 3 | | | 3 | | | | | | | | | | |
| Prostate | + |
| Atrophy |
| Inflammation | | 2 | | 3 | | 2 | 3 | 3 | 3 | 4 | | 2 | | | 2 | | 2 | 2 | | 2 | | 2 | 3 | | 2 |
| Seminal Vesicle | + |
| Atrophy | 2 | | 2 | | | | | | | | | 2 | | | | | 3 | | | 2 | | | | | |
| Decreased Secretory Fluid | | | | | 3 | | 3 | | | 2 | | | | | | | | | | | | | 3 | | |
| Testes | + |
| Granuloma Sperm |
| Mineralization | 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | | DAY ON TEST | | | males
(cont...) |
|--|--|-----------------------|------------------|--|--------------------|
| | | 0
7
4
4 | 0
6
2
8 | 0
7
4
4 | 0
7
4
4 | 0
6
3
7 | 0
6
3
7 | 0
5
3
2 | 0
7
4
4 | 0
6
0
9 | 0
7
3
9 | 0
6
7
0 | 0
7
2
5 | 0
5
2
2 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
4
7
4 | 0
2
4
6 | 0
5
7
1 | 0
6
3
3 | 0
5
6
4 | 0
7
1
8 | 0
5
1
6 | 0
6
8 | | |
| | | 0
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1
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1 | 0
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1
1
2 | 0
0
1
2
1 | 0
0
1
2
2 | 0
0
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3
1 | 0
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1
3
2 | 0
0
1
4
1 | 0
0
1
4
2 | 0
0
1
5
1 | 0
0
1
5
2 | 0
0
1
6
1 | 0
0
1
7
2 | 0
0
1
8
1 | 0
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1
9
2 | 0
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1
9
1 | 0
0
1
9
2 | 0
0
1
9
1 | 0
1
0
0
1 | 0
1
0
0
2 | 0
1
0
6
1 | 0
1
0
6
2 | 0
0
0
7
1 | 0
1
0
7
2 | 0
1
1
8 | | |
| Interstitial Cell, Hyperplasia | | 1 | | | 2 |
| Seminiferous Tubule, Atrophy | | 3 | | | 2 |

HEMATOPOIETIC SYSTEM

| | |
|--|---|
| Bone Marrow | + |
| Atrophy | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | | | |
| Lymph Node | | | | | + | | | | | + | + | | | | | | | | | | + | | | + | + | + | |
| Hyperplasia, Lymphoid |
| Axillary, Hemorrhage |
| Lumbar, Degeneration, Cystic |
| Mediastinal, Degeneration, Cystic | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage |
| Medulla, Pancreatic, Sinus, Dilatation | |
| Pancreatic, Hyperplasia, Lymphoid |
| Renal, Degeneration, Cystic |
| Renal, Hyperplasia, Lymphoid | | | | | | 2 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | | | 2 | | | | | | | | | | | | | | 4 | | | 3 | | | 3 | | | | |
| Hemorrhage | 3 | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | 2 | | | | | 3 | | | | 2 | | | | | 2 | | | | | | | 3 | 2 | | | |
| Lymph Node, Mesenteric | + |
| Degeneration, Cystic |
| Hemorrhage |
| Hyperplasia, Lymphoid | | | | | | | | | | | 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| DAY ON TEST | | 0 | | |
|------------------------------------|--|--------------------|--|
| | | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 4 | 2 | 5 | 6 | 5 | 7 | 5 | 6 | | |
| FISCHER 344 RATS-NCTR RATS
MALE | | 4 | 2 | 4 | 4 | 3 | 3 | 3 | 4 | 0 | 3 | 7 | 2 | 2 | 4 | 4 | 4 | 4 | 7 | 4 | 7 | 3 | 6 | 1 | 1 | 6 | |
| | | 4 | 8 | 4 | 4 | 7 | 7 | 2 | 4 | 9 | 9 | 0 | 5 | 2 | 4 | 4 | 4 | 4 | 4 | 6 | 1 | 3 | 4 | 8 | 6 | 8 | |
| 0.0875 ACRYL | | 0 | males
(cont...) | |
| | | 0 | | |
| ANIMAL ID | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 6 | 6 | 7 | 7 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | |

| |
|----------------------------------|
| Medulla, Sinus, Dilatation | 2 | |
| Spleen | + |
| Accessory Spleen |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Hyperplasia, Lymphoid |
| Infarct | | | X | | | | | | | X | X | | | X | | | | | | X | | | | | |
| Pigmentation |
| Red Pulp, Atrophy |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | | | 2 | 2 | 2 | 2 | | 2 | 2 | 3 | 3 | 3 |

INTEGUMENTARY SYSTEM

| |
|---------------------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | M | M | | |
| Galactoceles | | | | X | | | X | | X | X | | | | | | | | | | | | | | | | |
| Lactation | 1 | | | | | 2 | | | | 3 | | 3 | | 1 | 2 | 2 | 2 | | | | | | | | | |
| Alveolus, Hyperplasia | | | | | | | | 2 | | 2 | | 3 | | 1 | | 2 | 2 | | | | | | | | | |
| Skin | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Inflammation | | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | 4 | | | | | | | | | | | | | 4 | | |

MUSCULOSKELETAL SYSTEM

| |
|--------------------|
| Bone |
| Vertebra, Fracture | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | DAY ON TEST | 0
7
4
4 | 0
6
2
8 | 0
7
4
4 | 0
7
4
4 | 0
6
3
7 | 0
6
3
7 | 0
5
3
2 | 0
7
4
4 | 0
6
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9 | 0
7
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9 | 0
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7
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5 | 0
5
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2 | 0
7
4
4 | 0
7
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4 | 0
7
4
4 | 0
4
7
4 | 0
2
4
6 | 0
5
7
1 | 0
6
3
3 | 0
5
6
4 | 0
7
1
8 | 0
5
1
6 | 0
6
6
8 | males
(cont...) | |
|--|-------------|--------------------|-----------------------|
| | ANIMAL ID | 0
0
1
1
1 | 0
0
1
1
2 | 0
0
1
1
2 | 0
0
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1
2 | 0
0
1
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3 | 0
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3 | 0
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4 | 0
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4 | 0
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5 | 0
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5 | 0
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6 | 0
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6 | 0
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7 | 0
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7 | 0
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8 | 0
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8 | 0
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9 | 0
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9 | 0
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2 | 0
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0
6 | 0
1
0
0
6 | 0
1
0
0
7 | 0
1
0
0
7 | | 0
1
0
0
8 |
| | | | |
| Bone, Femur
Fibrous Osteodystrophy | | + | |
| | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Skeletal Muscle | | + | |
| NERVOUS SYSTEM | | | |
| Brain, Brain Stem
Hemorrhage
Hypothalamus, Compression
Ventricle, Dilatation | | + | |
| | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| | | | | | | | 3 | 3 | | | 3 | | 2 | | | | 2 | | | | | | 2 | | | | |
| Brain, Cerebellum | | + | |
| Brain, Cerebrum
Hydrocephalus
Necrosis, Focal
Thrombosis
Ventricle, Dilatation | | + | |
| | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 2 | | | | | | | | 2 | | | | | | | | | | | |
| Peripheral Nerve, Sciatic
Axon, Degeneration | | + | |
| | | | 1 | | | |
| Spinal Cord, Cervical
Axon, Degeneration
Nerve, Degeneration | | + | |
| | | 1 | | 1 | 1 | | | 1 | | | 1 | 1 | | 1 | | | 1 | | | | | | 1 | | 1 | | |
| Spinal Cord, Lumbar
Gliosis, Focal
Axon, Degeneration | | + | |
| | | | | | | | | 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | DAY ON TEST | | | | |
|--|-----------------------|--------------------|--|--|--|
| | 0
7
4
4 | 0
6
2
8 | 0
7
4
4 | 0
7
4
4 | 0
6
3
7 | 0
6
3
7 | 0
5
3
2 | 0
7
4
4 | 0
6
0
9 | 0
7
3
9 | 0
6
7
0 | 0
7
2
5 | 0
5
2
2 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
4
7
4 | 0
2
4
6 | 0
5
7
1 | 0
6
3
3 | 0
5
6
4 | 0
7
1
8 | 0
5
1
6 | 0
6
6
8 | males
(cont...) | | | |
| ANIMAL ID | 0
0
1
1
1 | 0
0
1
1
2 | 0
0
1
1
2 | 0
0
1
1
2 | 0
0
1
1
3 | 0
0
1
1
2 | 0
0
1
1
4 | 0
0
1
1
2 | 0
0
1
1
5 | 0
0
1
1
2 | 0
0
1
1
6 | 0
0
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7 | 0
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1
8 | 0
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9 | 0
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1
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0 | 0
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1
1
1 | 0
0
1
1
2 | 0
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3 | 0
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1
4 | 0
0
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1
5 | 0
0
1
1
6 | 0
0
1
1
7 | 0
0
1
1
8 | 0
0
1
1
9 | males
(cont...) | | | |

Harderian Gland
 Infiltration Cellular, Lymphocyte

+ +

Zymbal's Gland

+

URINARY SYSTEM

Kidney
 Cyst
 Hydronephrosis
 Infarct
 Nephropathy
 Cortex, Inflammation, Chronic

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

Urinary Bladder
 Calculus Gross Observation
 Dilatation

+
 X
 3 3

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

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TDMS No. 20313 - 05
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 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | DAY ON TEST | 0
5
4
2 | 0
7
4
4 | 0
3
3
1 | 0
7
3
9 | 0
6
0
6 | 0
3
6
0 | 0
6
4
9 | 0
7
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6 | 0
7
1
5 | 0
7
1
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7
4
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7
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5 | | | |
|--|-------------|-----------------------|-----|-----|-----|
| | ANIMAL ID | 0
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8
2 | 0
2
0
9
1 | 0
2
0
9
2 | | | |
| | * TOTALS | | | | |
| Oval Cell, Hyperplasia | | 4 | | 1 | 4.0 | |
| Mesentery | | | 4 | | |
| Fat, Necrosis | | 4 | | 3 | 3.3 | |
| Pancreas | | + | + | 48 | |
| Infiltration Cellular, Lymphocyte | | | 1 | 1.0 | |
| Polyarteritis | | | 3 | 2.3 | |
| Acinar Cell, Atrophy | | | | | | | | | | | | 2 | | | | 3 | | | | 2 | | | | 3 | 15 | 2.0 |
| Salivary Glands | | + | + | 48 | |
| Stomach, Forestomach | | + | + | 48 | |
| Edema | | | | | | | | | | | | | | | | | | | 4 | | | | 2 | 3 | 3.0 | |
| Hyperplasia | | | | | | | | | | | | 3 | | | | 3 | | | | 2 | 3 | 6 | 2.5 | | | |
| Inflammation | | | | | | | | | | | | 3 | | | | | | | | 3 | | 3 | 3.0 | | | |
| Ulcer | | | | | | | | | | | | 2 | | | | | | | | 3 | | 3 | 2.7 | | | |
| Stomach, Glandular | | + | + | 48 | |
| Edema | | | | | | | | | | | | | | | | | | | 4 | 3 | | | 2 | 3.5 | | |
| Erosion | | | 1 | 2.0 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | 3 | | | | 2 | 2.5 | | |
| Ulcer | | 2 | | 1 | 2.0 | |
| Tongue | | | + | 1 | |

CARDIOVASCULAR SYSTEM

| | |
|--------------|----|
| Blood Vessel | + | 48 |
|--------------|----|

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

M .. Missing tissue
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 BLANK .. Not examined microscopically

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | | DAY ON TEST | | | | * TOTALS | |
|--|--|-----------------------|----|-----|----------|--|
| | | 0
5
4
2 | 0
7
4
4 | 0
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1 | 0
7
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9 | 0
6
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0 | 0
6
4
9 | 0
7
2
6 | 0
7
1
5 | 0
7
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0 | 0
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4
4 | 0
7
4
4 | 0
7
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9 | 0
7
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4 | 0
7
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4 | 0
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1 | 0
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9 | 0
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2
0
8
1 | 0
2
0
8
2 | 0
2
0
9
1 | 0
2
0
9
2 | | | | |
| Heart | | + | 48 | | | |
| Cardiomyopathy | | 3 | 2 | 2 | | 2 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | | 3 | 2 | 2 | | 2 | 37 | 2.0 | | |
| Atrium, Thrombosis | | | | | | | | X | | X | X | X | | | X | | X | | | | X | | 13 | | | | |
| ENDOCRINE SYSTEM | | | | | | |
| Adrenal Cortex | | + | 48 | | | |
| Angiectasis | | | | | | | | | | | 2 | | | | | | | | | | | | | 3 | 2.0 | | |
| Hyperplasia, Focal | | | 2 | 1.5 | | |
| Hypertrophy, Focal | | | 3 | 2.0 | | |
| Necrosis, Coagulative | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 | 4.0 | | |
| Vacuolization Cytoplasmic | | 2 | | 2 | | | 2 | | 3 | | | | | 3 | 3 | | 2 | | | 1 | 3 | 3 | | 16 | 2.4 | | |
| Adrenal Medulla | | + | 48 | | | |
| Angiectasis | | | 2 | | | 1 | | | | | | | | | | | | | | | | | | 3 | 1.7 | | |
| Hyperplasia, Focal | | | 2 | | | | | | | | 4 | | | | | | 4 | | | | | | | 7 | 3.0 | | |
| Islets, Pancreatic | | + | 48 | | | |
| Parathyroid Gland | | + | 48 | | | |
| Cyst | | | 1 | | | |
| Pituitary Gland | | + | 48 | | | |
| Pars Distalis, Hyperplasia | | | 1 | 2.0 | | |
| Pars Intermedia, Cyst | | | | | | | X | | | | | | | | | | | | | | | | | 1 | | | |
| Thyroid Gland | | + | 48 | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | | | | 4 | 1.8 | | |
| Follicle, Cyst | | | | | | | | | | | | | | | X | X | | | | | | | | 2 | | | |

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 I .. Insufficient tissue
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| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | DAY ON TEST | | |
|--|-----------------------|----------|
| | 0
5
4
2 | 0
7
4
4 | 0
3
3
1 | 0
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3
9 | 0
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6
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9 | 0
7
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6 | 0
7
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5 | 0
7
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0 | 0
7
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4 | 0
7
4
4 | 0
7
4
4 | 0
7
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9 | 0
7
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4 | 0
7
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4 | 0
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2 | 0
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1 | 0
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4 | 0
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5
9 | 0
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8 | 0
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| ANIMAL ID | 0
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2 | 0
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7
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6
1 | 0
2
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6
2 | 0
2
0
7
1 | 0
2
0
8
2 | 0
2
0
8
1 | 0
2
0
9
2 | 0
2
0
9
2 | * TOTALS |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | 2 1.0 |

GENERAL BODY SYSTEM

| | |
|------------|---|
| Tissue NOS | 1 |
|------------|---|

GENITAL SYSTEM

| | | |
|---------------------------|--------|--------|
| Epididymis | + | 48 | |
| Atrophy | | | | | | | | | | | | | | 3 | | | | | | | | | 1 3.0 | |
| Exfoliated Germ Cell | 2 | | | | 3 | | 2 | 2 | | | | | | | 3 | | | 2 | 4 | 3 | 2 | | 19 2.7 | |
| Hypospermia | | 4 | | 4 | 3 | | 4 | 2 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | | | 2 | 4 | 4 | 32 3.8 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | 3 | | | | | | | 1 3.0 | |
| Preputial Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Atrophy | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 | |
| Inflammation | | 3 | | 3 | 3 | 2 | 2 | | | 2 | 2 | 3 | 4 | 2 | 4 | | 3 | 2 | 2 | 3 | 3 | 3 | 38 2.7 | |
| Duct, Ectasia | | | 2 | | | | | | | | | | | | | | | | 3 | | | | 6 2.8 | |
| Prostate | + | 48 | |
| Atrophy | | | | | | | | | | | | | | | 3 | | | | | | | | 1 3.0 | |
| Inflammation | | | | 2 | 1 | | 2 | | 2 | | | | 2 | 2 | 1 | 3 | 3 | | 2 | 2 | 3 | 2 | 3 | 29 2.3 |
| Seminal Vesicle | + | 48 | |
| Atrophy | | | | | 2 | | | | 2 | | 2 | 3 | | 4 | | | 2 | | | | | 2 | 12 2.3 | |
| Decreased Secretory Fluid | | | | | | | | | | | | | | | | | | 2 | | 2 | | | 6 2.5 | |
| Testes | + | 48 | |
| Granuloma Sperm | X | | 1 | |
| Mineralization | 1 2.0 | |

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 BLANK .. Not examined microscopically

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| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | DAY ON TEST | 0
5
4
2 | 0
7
4
4 | 0
3
3
1 | 0
7
3
9 | 0
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6 | 0
7
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7
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4 | 0
7
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9 | 0
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|--|-------------|------------------|--|----------|
| | ANIMAL ID | 0
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2 | | | |
| | | | | * TOTALS |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 3 | | | 6 2.0 |
| Seminiferous Tubule, Atrophy | | | 4 | 1 | | | | 3 | 3 | 4 | | | 4 | 4 | | | | | | | 4 | | | 21 3.6 |

HEMATOPOIETIC SYSTEM

| | | |
|--|----|-----|
| Bone Marrow | + | 48 | |
| Atrophy | | | | | 3 | | | | | 4 | | | | | | 2 | | | | | | | | 4 | 3.0 |
| Hyperplasia | 2 | | 3 | 2.0 |
| Lymph Node | | | + | + | + | | | | | + | + | + | | | | + | + | + | + | | | + | | 17 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 | 2.0 |
| Axillary, Hemorrhage | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 | 2.0 |
| Lumbar, Degeneration, Cystic | | | | | | | | | | | 3 | | | | | 3 | | | | | | | | 2 | 3.0 |
| Mediastinal, Degeneration, Cystic | 1 | 3.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 | 2.0 |
| Medulla, Pancreatic, Sinus, Dilatation | | | | | 3 | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | 2 | | 1 | 2.0 |
| Renal, Degeneration, Cystic | | | | | | | | | | | | | | | | 3 | | | | | | | | 1 | 3.0 |
| Renal, Hyperplasia, Lymphoid | 1 | 2.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Degeneration, Cystic | | | | | | 1 | | | | | | | | | 2 | | | | | | | 3 | | 7 | 2.6 |
| Hemorrhage | 1 | 3.0 |
| Hyperplasia, Lymphoid | 1 | 2.0 |
| Infiltration Cellular, Plasma Cell | 2 | | 2 | | | | | | | | | 3 | | | | | | 2 | | | | | | 10 | 2.3 |
| Lymph Node, Mesenteric | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Degeneration, Cystic | | | | | | | | | | | | 4 | | 4 | | | | | | | | | | 2 | 4.0 |
| Hemorrhage | 2 | | 1 | 2.0 |
| Hyperplasia, Lymphoid | 2 | 2.0 |

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| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | | DAY ON TEST | | | |
|--|--|-----------------------|------------------|------------------|-----|
| | | 0
5
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| ANIMAL ID | | 0
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1 | 0
1
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7
2 | 0
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8
1 | 0
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2 | 0
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9
1 | 0
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2 | 0
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0
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1 | 0
2
0
8
2 | 0
2
0
9
1 | 0
2
0
9
2 | * TOTALS | | |
| | | | | | |
| Medulla, Sinus, Dilatation | | | | 1 | 2.0 |
| Spleen | | + | 48 | | |
| Accessory Spleen | | | | | X | | | | | | | X | | | | | | | | | | | | 2 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | 4 | | | 4 | | | | | | | | | | | | 3 | 3.7 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | 2.0 | |
| Infarct | | | X | | X | | | | | | | | | X | | | | X | | | | | X | 10 | | |
| Pigmentation | | | | | | | | 3 | | | | | | | | | | | | 3 | 1 | | | 3 | 2.3 | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | 3 | | | | 1 | 3.0 | |
| Thymus | | + | 47 | | |
| Atrophy | | 3 | 2 | 2 | | 2 | 2 | 2 | 3 | 2 | 3 | | 2 | 2 | 3 | 2 | 2 | | 4 | 3 | 3 | 3 | 2 | 41 | 2.3 | |
| INTEGUMENTARY SYSTEM | | | | | |
| Mammary Gland | | + | 44 | | |
| Galactocoele | | | X | | | | | X | | X | | X | | | | | | X | X | | | | | 10 | | |
| Lactation | | | 3 | | 1 | | | 2 | 3 | | | 2 | | 2 | 2 | | 2 | 2 | | | 2 | 1 | | 19 | 2.0 | |
| Alveolus, Hyperplasia | | | 1 | | | | | 2 | | | 2 | 2 | | 2 | 2 | | | | | | | | 4 | 13 | 2.1 | |
| Skin | | + | 48 | | |
| Cyst Epithelial Inclusion | | | | | | | | X | | | | | | | | | | | | | | | | 2 | | |
| Inflammation | | | 1 | 4.0 | |
| Ulcer | | | 2 | 4.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | |
| Bone | | | | 1 | |
| Vertebra, Fracture | | | | | 1 |

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 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | DAY ON TEST | 0
5
4
2 | 0
7
4
4 | 0
3
3
1 | 0
7
3
9 | 0
6
0
6 | 0
3
6
9 | 0
7
4
6 | 0
7
2
5 | 0
7
1
0 | 0
7
4
4 | 0
7
4
4 | 0
7
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4 | 0
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4 | 0
5
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1 | 0
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5
4 | 0
4
5
9 | 0
7
0
8 | 0
6
9
5 | | |
|--|-------------|----------------------------------------|
| | ANIMAL ID | 0
1
0
8
2 | 0
1
0
9
1 | 0
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1
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8
1 | 0
2
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8
2 | 0
2
0
9
1 | 0
2
0
9
2 | |
| | * TOTALS | |
| Bone, Femur
Fibrous Osteodystrophy | | + | 48
2 2.5 |
| Skeletal Muscle | | + | 48 |
| NERVOUS SYSTEM | | |
| Brain, Brain Stem
Hemorrhage
Hypothalamus, Compression
Ventricle, Dilatation | | + | 48
1 4.0
13 2.5
1 2.0 |
| Brain, Cerebellum | | + | 48 |
| Brain, Cerebrum
Hydrocephalus
Necrosis, Focal
Thrombosis
Ventricle, Dilatation | | + | 48
2 2.0
1 4.0
1 2.0
5 2.0 |
| Peripheral Nerve, Sciatic
Axon, Degeneration | | + | 48
7 1.0 |
| Spinal Cord, Cervical
Axon, Degeneration
Nerve, Degeneration | | + | 48
22 1.0
1 1.0 |
| Spinal Cord, Lumbar
Gliosis, Focal
Axon, Degeneration | | + | 48
1 1.0
4 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | DAY ON TEST | 0
5
4
2 | 0
7
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4 | 0
3
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7
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9 | 0
6
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9 | 0
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|--|-------------|-----------------------|-------|--------|
| | ANIMAL ID | 0
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8
2 | 0
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1 | 0
2
0
8
2 | 0
2
0
8
1 | 0
2
0
9
2 | | |
| | * TOTALS | | | |
| Nerve, Degeneration | | 1 | | | | | | 1 | | | | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | | 20 1.1 |
| Spinal Cord, Thoracic | | + | | 48 |
| Axon, Degeneration | | 1 | | | | | | | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 18 1.0 |
| Nerve, Degeneration | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 | |
| RESPIRATORY SYSTEM | | | | |
| Lung | | + | | 48 |
| Inflammation | | | 2 2.0 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | 1 | | | | | | | | | | 2 1.5 | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | 2 | | | | | | | | | | 4 1.5 | |
| Nose | | + | | 48 |
| Fungus | | | 1 | |
| Inflammation | | | 3 2.0 | |
| Trachea | | + | | 48 |
| Inflammation, Chronic | | | 1 2.0 | |
| Epithelium, Hyperplasia | | | 1 2.0 | |
| SPECIAL SENSES SYSTEM | | | | |
| Ear | | | 1 | |
| Eye | | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | 47 |
| Cataract | | | 1 | |
| Cornea, Inflammation | | | 1 2.0 | |
| Retina, Degeneration | | | 2 3.0 | |
| Sclera, Metaplasia, Osseous | | 2 | | | | | | | 1 | | | | | | | | | | | | | | 3 1.7 | |

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.0875 ACRYL | DAY ON TEST | 0
5
4
2 | 0
7
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4 | 0
3
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9 | 0
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|--|-------------|-----------------------|---|-------|--------|
| | ANIMAL ID | 0
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2
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1 | 0
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2 | | | |
| | * TOTALS | | | | |
| Harderian Gland | | + | + | 48 | |
| Infiltration Cellular, Lymphocyte | | | | | | 1 | | | | | | | | | | | | | | | | | | 8 1.1 | |
| Zymbal's Gland | | | | + | | | | | | | | | | | | | | | | | | | | 2 | |
| URINARY SYSTEM | | | | | |
| Kidney | | + | + | 48 | |
| Cyst | | | | | | | X | | | | | | | | | | | | | | | | | 1 | |
| Hydronephrosis | | | | | 2 | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Infarct | | | | | | | | | | | | | | | | | 3 | | | | | | | 1 3.0 | |
| Nephropathy | | 2 | 4 | 1 | 3 | 2 | | 3 | 4 | 2 | 2 | 2 | 3 | 2 | | 3 | 3 | 2 | 2 | 2 | 4 | 2 | 2 | 3 | 45 2.6 |
| Cortex, Inflammation, Chronic | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 | |
| Urinary Bladder | | + | + | 48 | |
| Calculus Gross Observation | | | | 1 | |
| Dilatation | | | | | | | | | | | | 4 | | | | | | | | | | | | 3 3.3 | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | | DAY ON TEST | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | |
|---|--|-----------------------|------------------|
| | | 0
3
9
3 | 0
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9
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9
1 | 0
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9
2 | 0
1
1
9
1 | 0
1
1
9
2 | |

ALIMENTARY SYSTEM

| | |
|--|---|
| Esophagus | + |
| Intestine Large, Cecum | A | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Liver | + |
| Angiectasis | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Basophilic Focus |
| Basophilic Focus, Multiple |
| Degeneration, Cystic | | 2 | | | | | | | | 3 | | | | | | 2 | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Granuloma | | | | | | 1 | 1 | | | | | | | | 2 | | | | | | | | 2 | | |
| Hematopoietic Cell Proliferation |
| Vacuolization Cytoplasmic | 2 | | | 3 | | | | | | | 2 | | | | 2 | | | | | | | 2 | | | |
| Bile Duct, Hyperplasia | | 2 | | | 2 | 1 | 1 | | | | 2 | | | | 2 | | | 2 | | | 2 | 1 | 2 | | |
| Caudate Lobe, Developmental Malformation |
| Centrilobular, Necrosis | 3 | | | 3 | |
| Hepatocyte, Hyperplasia | | | | | | | | | | | 4 | | | | | | | | | | | | | | |

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

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

TDMS No. 20313 - 05
Test Type: CHRONIC
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Species/Strain: RATS/F 344/NCTR

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Acrylamide
CAS Number: 79-06-1

Date Report Requested: 01/15/2010
Time Report Requested: 14:38:46
First Dose M/F: 05/23/05 / 05/23/05
Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | | DAY ON TEST | | | males
(cont...) | | | |
|--|--|-------------|---|--------------------|--|--|--|
| | | 0393 | 0696 | 0774 | 0772 | 0774 | 0774 | 0652 | 0723 | 0744 | 0744 | 0546 | 0744 | 0624 | 0744 | 0570 | 0717 | 0744 | 0403 | 0744 | 0698 | 0744 | 0540 | 0564 | 0663 | | | | | | | | |
| ANIMAL ID | | 00261 | 00026 | 00027 | 00022 | 00027 | 00028 | 00022 | 00066 | 00066 | 00066 | 00066 | 00066 | 00066 | 00066 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | | | | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | | | |
| Left Lateral Lobe, Developmental Malformation | | X | | | | | | | | X | | | | | | | | | | | | | | | | X | | | | | | | |
| Right Lateral Lobe, Developmental Malformation | | | | | | | | | | X | | | | | | | | | | | | X | | | | | | | | | | | |
| Mesentery | | | | | | | |
| Accessory Spleen | | | | | | | |
| Pancreas | | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |
| Polyarteritis | | | | | | | |
| Acinar Cell, Atrophy | | | | | | 2 | | | | 2 | | | | 2 | | | | 2 | | | | | | | | 3 | | | | 2 | | | |
| Salivary Glands | | + | + | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | |
| Stomach, Forestomach | | A | + | | | | | | |
| Edema | | | | | | | |
| Hyperplasia | | | | | | | |
| Stomach, Glandular | | A | + | | | | | | |
| Edema | | | | | | | |
| Tongue | | | | | | | |
| Hyperplasia | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | |
| Blood Vessel | | + | + | | | | | | |
| Heart | | + | + | | | | | | |
| Cardiomyopathy | | 3 | 3 | 2 | 3 | 2 | 2 | | 2 | | 2 | 2 | 3 | 2 | 2 | 3 | 2 | | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| Infarct | | | | | | | |
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | | | | | | | |
| + .. Tissue examined microscopically | | | | | | | |
| X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | DAY ON TEST | 0393 | 0696 | 0774 | 0772 | 0774 | 0774 | 0774 | 0652 | 0723 | 0774 | 0774 | 0546 | 0774 | 0624 | 0774 | 0570 | 0771 | 0774 | 0403 | 0774 | 0698 | 0774 | 0540 | 0564 | 0663 | males
(cont...) |
|---|-------------|--------------------|
| | ANIMAL ID | 00261 | 00262 | 00271 | 00272 | 00278 | 00281 | 00282 | 00291 | 00292 | 00301 | 00302 | 00306 | 00306 | 00306 | 00306 | 00306 | 00311 | 00311 | 00311 | 00311 | 00311 | 00311 | 00311 | 00311 | 00311 | |
| | 661 | 662 | 661 | 662 | 668 | 668 | 669 | 669 | 661 | 661 | 662 | 662 | 663 | 663 | 664 | 664 | 661 | 661 | 666 | 666 | 667 | 667 | 668 | 668 | 669 | 669 | |
| | 12 | 12 | |

Atrium, Thrombosis

X

X

X

X

X

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Angiectasis

2

2

2

Atrophy

Hyperplasia, Focal

2

3

2

Hypertrophy, Focal

2

2

4

Vacuolization Cytoplasmic

3

2

2

Adrenal Medulla

+ +

Angiectasis

2

Hyperplasia, Focal

2

Islets, Pancreatic

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

Parathyroid Gland

+ + M +

Hyperplasia, Focal

Pituitary Gland

+ +

Angiectasis

3

1

Pars Distalis, Cyst

X

Pars Distalis, Hyperplasia

Thyroid Gland

A +

C-cell, Hyperplasia

Follicle, Cyst

GENERAL BODY SYSTEM

* .. 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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 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| DAY ON TEST | | 0393 | 0696 | 0744 | 0744 | 0744 | 0744 | 0652 | 0743 | 0744 | 0744 | 0546 | 0744 | 0624 | 0744 | 0570 | 0717 | 0744 | 0403 | 0744 | 0698 | 0744 | 0540 | 0564 | 0663 | males
(cont...) |
|-------------|--|--------------------|
| | | 0393 | 0696 | 0744 | 0744 | 0744 | 0744 | 0652 | 0743 | 0744 | 0744 | 0546 | 0744 | 0624 | 0744 | 0570 | 0717 | 0744 | 0403 | 0744 | 0698 | 0744 | 0540 | 0564 | 0663 | |
| ANIMAL ID | | 00261 | 00262 | 00271 | 00272 | 00288 | 00288 | 00299 | 00611 | 00621 | 00632 | 00641 | 00652 | 00663 | 00674 | 00685 | 01161 | 01166 | 01177 | 01181 | 01187 | 01192 | 01198 | 01199 | 01191 | males
(cont...) |
| | | 00261 | 00262 | 00271 | 00272 | 00288 | 00288 | 00299 | 00611 | 00621 | 00632 | 00641 | 00652 | 00663 | 00674 | 00685 | 01161 | 01166 | 01177 | 01181 | 01187 | 01192 | 01198 | 01199 | 01191 | |

NONE

GENITAL SYSTEM

| |
|--------------------------------|
| Epididymis | + |
| Exfoliated Germ Cell | | | 1 | 2 | | | | 2 | 3 | | 2 | | 3 | 3 | 2 | | | | | 4 | | | | | | |
| Granuloma Sperm |
| Hypospermia | | 4 | | | 4 | 4 | 4 | 3 | | 4 | | | 4 | 4 | 4 | | 4 | 4 | | 3 | 4 | 4 | | | 4 | |
| Mesothelium, Hyperplasia | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Penis |
| Inflammation |
| Preputial Gland | + |
| Inflammation | | 2 | 2 | | 3 | 2 | 3 | 3 | 3 | 4 | 4 | | | 2 | 3 | 3 | 2 | 1 | 2 | | | 2 | 1 | 2 | | |
| Duct, Ectasia | | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Glandular, Hyperplasia | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Prostate | + | M | + | + | |
| Inflammation | | | 2 | 3 | | | | 2 | 2 | 3 | 2 | 2 | | | 3 | 2 | | | | 2 | | 2 | | | | |
| Seminal Vesicle | + |
| Atrophy | | | | | | | 2 | | | 2 | | | | | | | 2 | | | | | | | | | |
| Decreased Secretory Fluid | | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Testes | + |
| Mineralization |
| Polyarteritis |
| Interstitial Cell, Hyperplasia | | | 2 | | | | | | | | 1 | | | | | | | | 2 | | | | | | | |

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

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|---|--|-----------------------|------------------|
| | | 0
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| Seminiferous Tubule, Atrophy | | | |
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HEMATOPOIETIC SYSTEM

| | | |
|--|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | |
| Hyperplasia | 4 | | |
| Lymph Node | | | + | | | | | | + | | + | | + | | + | | + | | | + | + | | + | | | | |
| Axillary, Hyperplasia, Lymphoid | 3 | | | 2 | | | |
| Inguinal, Degeneration, Cystic | |
| Inguinal, Hyperplasia, Lymphoid | 3 | | | | | | |
| Inguinal, Infiltration Cellular, Plasma Cell | |
| Lumbar, Degeneration, Cystic | | | | | | | | | | | | | 3 | | | | | | | | 2 | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | 3 | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | |
| Renal, Degeneration, Cystic | | | | | | | | | | 4 | | 4 | | 3 | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | |
| Degeneration, Cystic | | | | | | | | | | | | | | 2 | | | | | | | | | | | 2 | | |
| Hemorrhage | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | 2 | | | | | | | 2 | | | | | | 3 | | | | 2 | | | |
| Infiltration Cellular, Plasma Cell | | | | 3 | | | | | | 3 | 3 | | | | | 3 | | | | | | | | 2 | | | |
| Lymph Node, Mesenteric | + | |
| Degeneration, Cystic | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | | DAY ON TEST | | | | males
(cont...) |
|---|--|-----------------------|--|--|--------------------|
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| Hemorrhage | | 2 | | | |
| Hyperplasia, Lymphoid | | 3 | | | |
| Medulla, Sinus, Dilatation | | 3 | | | |
| Spleen | | + | | | |
| Hematopoietic Cell Proliferation | | | | | |
| Infarct | | X | | | |
| Pigmentation | | 3 | | | |
| Red Pulp, Atrophy | | 4 | | | |
| Thymus | | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | | | |
| Atrophy | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 4 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | | | 2 | 3 | 2 | 2 | | | |
| Cyst | | X | | | |
| INTEGUMENTARY SYSTEM | | | | | |
| Mammary Gland | | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | | | | |
| Galactocele | | X | | | |
| Lactation | | 2 | | | |
| Alveolus, Hyperplasia | | 2 | | | |
| Skin | | + | | | |
| Fat, Subcutaneous Tissue, Necrosis | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | |
| Bone | | | | | |
| Vertebra, Fracture | | | | | |
| Bone, Femur | | + | | | |

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| DAY ON TEST | | 03 | 06 | 07 |
|-------------|--|----|
|-------------|--|----|

Fibrous Osteodystrophy

Skeletal Muscle

NERVOUS SYSTEM

Brain, Brain Stem
 Gliosis, Focal
 Hypothalamus, Compression
 Ventricle, Dilatation

Brain, Cerebellum

Brain, Cerebrum
 Mineralization
 Ventricle, Dilatation

Peripheral Nerve, Sciatic
 Axon, Degeneration

Spinal Cord, Cervical
 Axon, Degeneration
 Nerve, Degeneration

Spinal Cord, Lumbar
 Cyst
 Axon, Degeneration
 Nerve, Degeneration

Spinal Cord, Thoracic

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | | DAY ON TEST | | | | | ANIMAL ID | males
(cont...) |
|---|--|-----------------------|--|--|--|-----------|--------------------|
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| Axon, Degeneration | | 1 | | | | 1 | | 1 | | 1 | | 1 | | 1 | | | | 1 | | | | 1 | | | | | | | | | |
| Nerve, Degeneration | | | | | | | | 1 | | 1 | | 1 | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | |
|---|---|
| Lung | + |
| Granuloma |
| Alveolar Epithelium, Hyperplasia |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | |
| Nose | + |
| Fungus |
| Inflammation |
| Keratin Cyst | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Trachea | + |

SPECIAL SENSES SYSTEM

| |
|-----------------------------------|
| Eye | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | X | |
| Phthisis Bulbi | | | | | | | X | |
| Retina, Degeneration | | | 3 | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | 2 | | | | | | 2 | | | | | 2 | 2 | | | | |
| Harderian Gland | + |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | 1 | | | | | | 1 | | | | | | | 2 | | | |
| Lacrimal Gland |

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Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | DAY ON TEST | 0393 | 0696 | 0774 | 0772 | 0774 | 0774 | 0774 | 0652 | 0773 | 0774 | 0774 | 0546 | 0774 | 0664 | 0774 | 0570 | 0771 | 0774 | 0403 | 0774 | 0698 | 0774 | 0540 | 0564 | 0563 | males
(cont...) |
|---|-------------|--------------------|
| | ANIMAL ID | 00261 | 00262 | 00271 | 00272 | 00281 | 00282 | 00291 | 00292 | 00611 | 00612 | 00621 | 00622 | 00631 | 00632 | 00641 | 00642 | 00661 | 00662 | 00111 | 00112 | 00111 | 00112 | 00111 | 00112 | 00111 | |

Zymbal's Gland +

URINARY SYSTEM

| |
|-----------------|
| Kidney | A | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst |
| Hydronephrosis | |
| Nephropathy | | 2 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | 4 | 1 | 3 | 3 | 4 | | 2 | 4 | 1 | 3 | 3 | 3 | 2 | 2 | 2 | |
| Urinary Bladder | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Dilatation | | | 3 | | | | | | | 3 | | | | | 4 | | | | | | | | | | | |

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MALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | |
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4 | 0
6
0
5 | 0
6
2
0 | 0
5
6
2 | |
| ANIMAL ID | 0
1
9
1
2 | 0
1
9
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1 | 0
1
9
2
2 | 0
1
9
3
1 | 0
1
9
3
2 | 0
1
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4
1 | 0
1
9
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2 | 0
2
6
1 | 0
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2 | 0
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7
1 | 0
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7
2 | 0
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8
1 | 0
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8
2 | 0
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1 | 0
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9
2 | 0
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1 | 0
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2 | 0
2
6
1 | 0
2
6
2 | 0
2
7
1 | 0
2
7
2 | 0
2
8
1 | 0
2
8
2 | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | |
|--|--------|
| Esophagus | + | 48 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | 45 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | 45 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 47 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 45 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | 44 |
| Lymphoid Tissue, Hyperplasia | | | | | | 3 | | | | | 3 | | | | | | | | | | | | | 2 3.0 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | 43 |
| Liver | + | 48 |
| Angiectasis | | | | | | | | | 2 | | 3 | | | | | | | | | | | | | 3 2.3 |
| Basophilic Focus | X | | 1 |
| Basophilic Focus, Multiple | X | | | | | | | | | X | | | | | | | | | | | | | | 2 |
| Degeneration, Cystic | 1 | | | | | | | | | | | | | | | 2 | | | | | | | | 5 2.0 |
| Eosinophilic Focus | | | | | | | | | | X | | | | | | | | | | | | | | 2 |
| Granuloma | 1 | | | | | | | 2 | | | | | | | 1 | | | | | | | | | 7 1.4 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 |
| Vacuolization Cytoplasmic | | | 2 | | | | | | 2 | 2 | | | 2 | | 1 | | 3 | | | | | | | 11 2.1 |
| Bile Duct, Hyperplasia | | | 2 | | 1 | | | | 2 | | | | | 2 | | | | | 2 | 2 | | | | 16 1.8 |
| Caudate Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Centrilobular, Necrosis | | | | | | | | | | | | 2 | | | | | | | | | | | | 3 2.7 |
| Hepatocyte, Hyperplasia | 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | DAY ON TEST | | | | | | | | | | | |
|---|-----------------------|------------------|--|---|--|--|-------|--|--|--------|--|--|
| | 0
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4 | 0
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3 | 0
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2 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| * TOTALS | | | | | | | | | | | | |
| Left Lateral Lobe, Developmental Malformation | | | 3 | | | | | | | | |
| Right Lateral Lobe, Developmental Malformation | | | 2 | | | | | | | | |
| | | | | | | | | | | | | |
| Mesentery | | | | + | | | 2 | | | | | |
| Accessory Spleen | | | X | | | 1 | | | | | |
| | | | | | | | | | | | | |
| Pancreas | | | | + | | | 46 | | | | | |
| Polyarteritis | | | 3 | | | 2 3.5 | | | | | |
| Acinar Cell, Atrophy | | | 3 | | | 1 2 | | | 17 1.9 | | |
| | | | | | | | | | | | | |
| Salivary Glands | | | + | | | 48 | | | | | |
| Infiltration Cellular, Plasma Cell | | | + | | | 1 3.0 | | | | | |
| | | | | | | | | | | | | |
| Stomach, Forestomach | | | + | | | 47 | | | | | |
| Edema | | | | 3 | | | 3 2.7 | | | | | |
| Hyperplasia | | | | 2 | | | 2 2.0 | | | | | |
| | | | | | | | | | | | | |
| Stomach, Glandular | | | + | | | 47 | | | | | |
| Edema | | | | + | | | 1 3.0 | | | | | |
| | | | | | | | | | | | | |
| Tongue | | | | + | | | 3 | | | | | |
| Hyperplasia | | | | 4 | | | 1 4.0 | | | | | |

CARDIOVASCULAR SYSTEM

| | | |
|----------------|--|-----|
| Blood Vessel | + | | 48 |
| Heart | + | | 48 |
| Cardiomyopathy | 2 | | 1 | 1 | 3 | 2 | 2 | | 2 | 2 | 3 | | | 2 | 2 | 3 | 2 | 2 | 2 | 2 | | | | | 37 |
| Infarct | | | | | | X | | | | | | | | | | | | | | | | | | | 2.2 |
| | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 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. 20313 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

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 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | DAY ON TEST | 0
7
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8
1 | 0
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3
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2 | | |
| | | | | |
| | | | | |
| | | * TOTALS | | | |
| Atrium, Thrombosis | | X | | | | | X | X | X | | | | X | X | X | | X | | | | | | | | 13 |

ENDOCRINE SYSTEM

| | | | |
|----------------------------|----|----|-----|
| Adrenal Cortex | + | 48 | | |
| Angiectasis | 2 | | | | | | | | | | | | | | 2 | | | | | | | | | | 5 | 2.0 |
| Atrophy | | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 | 3.0 |
| Hyperplasia, Focal | | | | | | | | 2 | | | | | | | | | 2 | | | | | | | | 5 | 2.2 |
| Hypertrophy, Focal | | | | | | 2 | | | | | | | | | | | | | | | | | | | 4 | 2.5 |
| Vacuolization Cytoplasmic | | | 3 | 3 | 3 | | | | | | | | 4 | 2 | | 3 | 2 | | | | 2 | 2 | | | 12 | 2.6 |
| Adrenal Medulla | + | 48 | | |
| Angiectasis | | 1 | 2.0 |
| Hyperplasia, Focal | | | | | | | 1 | 2 | | 3 | | | | | 2 | | | | | | 2 | | | | 6 | 2.0 |
| Islets, Pancreatic | + | 46 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| Hyperplasia, Focal | | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Pituitary Gland | + | 48 | | |
| Angiectasis | | 2 | 2.0 |
| Pars Distalis, Cyst | | | | X | | | | | | X | X | | | X | | | | X | | | | | | | 6 | |
| Pars Distalis, Hyperplasia | | | | 2 | | | 2 | | | | | | | 2 | | 2 | | 2 | | | | | | | 5 | 2.0 |
| Thyroid Gland | + | 47 | | |
| C-cell, Hyperplasia | | | | 1 | | | | | | 2 | | | | | | | | | | | 3 | | | | 3 | 2.0 |
| Follicle, Cyst | X | | 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

TDMS No. 20313 - 05
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | | DAY ON TEST | | | |
|---|--|-----------------------|----------|--|
| | | 0
7
4
4 | 0
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4 | 0
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| ANIMAL ID | | 0
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1 | 0
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7
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2 | 0
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8
1 | 0
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9
1 | 0
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2 | 0
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3
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1 | 0
2
3
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2 | 0
2
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6
1 | 0
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3
6
2 | 0
2
3
7
1 | 0
2
3
7
2 | 0
2
3
8
1 | 0
2
3
8
2 | * TOTALS | |
| | | | | |
| | | | | |
| | | | | |

NONE

GENITAL SYSTEM

| | | | |
|--------------------------------|----|----|-----|
| Epididymis | + | 48 | | |
| Exfoliated Germ Cell | 4 | 3 | | 2 | 3 | 2 | | 2 | 3 | | 3 | 2 | 3 | 4 | 2 | | 3 | 4 | | | | 4 | | | 24 | 2.8 |
| Granuloma Sperm | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 | 2.0 |
| Hypospermia | 4 | 3 | | 4 | | | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | | 4 | | 4 | | 4 | 4 | 2 | | | 31 | 3.8 |
| Mesothelium, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | | | | | 2 | 1.0 |
| Penis | | | | | | | | | | | | | | | | | + | | | | | | | 1 | | |
| Inflammation | | | | | | | | | | | | | | | | | 3 | | | | | | | | 1 | 3.0 |
| Preputial Gland | + | 48 | | |
| Inflammation | 2 | 2 | | 4 | 3 | 3 | 4 | | 2 | 4 | 3 | | 2 | 2 | 2 | 2 | | 2 | 4 | | 2 | | | | 35 | 2.5 |
| Duct, Ectasia | | 2 | | | | | | | 2 | | | | | | | | | | | | | 2 | | | 4 | 2.5 |
| Glandular, Hyperplasia | | 1 | 3.0 |
| Prostate | + | 47 | | |
| Inflammation | 2 | | 3 | | 1 | | | 1 | 3 | 2 | | | 3 | | 1 | 3 | | 2 | 3 | 2 | 3 | 1 | | | 25 | 2.2 |
| Seminal Vesicle | + | 48 | | |
| Atrophy | | | | | | | | | 3 | 2 | | | | | | | | | 2 | | | | | | 6 | 2.2 |
| Decreased Secretory Fluid | | 4 | | | | | | | | | 4 | | | | | | | | | | | | | | 3 | 4.0 |
| Testes | + | 48 | | |
| Mineralization | | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 | 2.0 |
| Polyarteritis | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | 2.0 |
| Interstitial Cell, Hyperplasia | | | | | 1 | | | | | | | | | | | | | | 2 | | | 2 | | | 6 | 1.7 |

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

1-4 .. Lesion qualified as:
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | DAY ON TEST | | 0 | 0 | |
|---|-------------|--|----------|--------|
| | ANIMAL ID | | 7 | 5 | 4 | 6 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 5 | 6 | 7 | 7 | 6 | 5 | |
| | | | 4 | 9 | 9 | 4 | 7 | 1 | 0 | 4 | 4 | 4 | 2 | 9 | 9 | 9 | 4 | 4 | 5 | 4 | 7 | 4 | 0 | 2 | 6 | |
| | | | 4 | 4 | 2 | 9 | 7 | 1 | 4 | 4 | 4 | 4 | 3 | 0 | 8 | 0 | 4 | 4 | 9 | 8 | 4 | 4 | 5 | 0 | 2 | |
| | | | 0 | 0 | |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 5 | 5 | 6 | 6 | 7 | 8 | 8 | 8 | |
| | | | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| | | | * TOTALS | |
| Seminiferous Tubule, Atrophy | | | 3 | | | | | | 3 | 2 | 4 | | | 3 | 4 | | | 3 | | | | | | | | 13 3.4 |

HEMATOPOIETIC SYSTEM

| | | | |
|--|----|-----|--|
| Bone Marrow | + | 47 | | |
| Atrophy | | 2 | | 4 | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | |
| Hyperplasia | | | | | | | | 3 | | | | | | | | | | | | | | | 2 | 3 | 3.0 | |
| Lymph Node | | | | + | | | + | + | | | | + | + | + | | | + | | + | | + | + | | 19 | | |
| Axillary, Hyperplasia, Lymphoid | 2 | 2.5 | |
| Inguinal, Degeneration, Cystic | | | | 3 | | | | 2 | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Inguinal, Hyperplasia, Lymphoid | 1 | 3.0 | |
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Lumbar, Degeneration, Cystic | | | | | | | | 2 | | | | | | | | | | | | | | | | 3 | 2.3 | |
| Lumbar, Hyperplasia, Lymphoid | 1 | 3.0 | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | 3 | | | | | | | | | | | | | | | | 2 | 3.0 | |
| Mediastinal, Hemorrhage | 1 | 3.0 | |
| Mediastinal, Hyperplasia, Lymphoid | 1 | 2.0 | |
| Pancreatic, Hemorrhage | 1 | 3.0 | |
| Pancreatic, Hyperplasia, Lymphoid | 3 | | | 1 | 3.0 | |
| Renal, Degeneration, Cystic | 3 | 3.7 | |
| Lymph Node, Mandibular | + | 48 | | |
| Degeneration, Cystic | | 2 | | 2 | | 2 | | | | | | | 2 | | 2 | | | | | | | | | 7 | 2.0 | |
| Hemorrhage | 1 | 2.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | 2 | | | | | | | | | | | | | 5 | 2.2 | |
| Infiltration Cellular, Plasma Cell | | 2 | | | | | | 2 | | 2 | | | | | 2 | | | | | | | | | 9 | 2.4 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 47 | | |
| Degeneration, Cystic | 2 | 3 | | | 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

2) Mild 4) Marked

TDMS No. 20313 - 05
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 Acrylamide
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|-----|--|
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3
6 | 0
2
3
7 | 0
2
3
7 | 0
2
3
8 | 0
2
3
8 | * TOTALS | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Medulla, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 | | |
| Hematopoietic Cell Proliferation | | | | | | | | 2 | | | | | | | | | | | | | 3 | | 2 | | 3 | 2.3 | | |
| Infarct | | | | | | | | | | | X | | | | | | | | | | | | | | 4 | | | |
| Pigmentation | | | | | | 3 | | | | | | | | | | | | | | | | | | | 3 | 2.7 | | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | | 45 | | | |
| Atrophy | | 2 | 3 | 2 | 3 | 3 | 2 | | | 3 | 2 | 3 | | 3 | 3 | 2 | 2 | | | 3 | 2 | 2 | 2 | 3 | 40 | 2.4 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | | 44 | | | |
| Galactocoele | | | | | | | | | | | | | | | | X | | | | | X | | | | 3 | | | |
| Lactation | | | | | 2 | 1 | 2 | | | | 2 | | | 2 | | 2 | | | | | | | | | 17 | 2.0 | | |
| Alveolus, Hyperplasia | | | | | | | 2 | | | 2 | 4 | | | 2 | | 3 | | | | | | | | | 11 | 2.4 | | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 | | | |
| Fat, Subcutaneous Tissue, Necrosis | | | | | | | | | | | | | | | | | | | | 3 | | | | | 1 | 3.0 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Vertebra, Fracture | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Bone, Femur | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | DAY ON TEST | 0
7
4
4 | 0
5
9
4 | 0
4
9
2 | 0
6
4
9 | 0
6
7
7 | 0
7
1
1 | 0
7
0
4 | 0
5
4
4 | 0
7
4
4 | 0
5
2
3 | 0
6
9
0 | 0
6
9
8 | 0
6
9
0 | 0
7
4
4 | 0
7
4
4 | 0
5
5
9 | 0
5
4
8 | 0
6
7
4 | 0
7
4
4 | 0
7
0
5 | 0
6
2
0 | 0
5
6
2 | | |
|---|-------------|-----------------------|---|--------|
| | ANIMAL ID | 0
1
9
1
2 | 0
1
9
2
1 | 0
1
9
2
2 | 0
1
9
3
1 | 0
1
9
3
2 | 0
1
9
4
1 | 0
1
9
4
2 | 0
2
2
6
1 | 0
2
2
6
2 | 0
2
2
7
1 | 0
2
2
7
2 | 0
2
2
8
1 | 0
2
2
8
2 | 0
2
2
9
1 | 0
2
3
5
1 | 0
2
3
5
2 | 0
2
3
6
1 | 0
2
3
6
2 | 0
2
3
7
1 | 0
2
3
7
2 | 0
2
3
8
1 | 0
2
3
8
2 | | |
| | * TOTALS | | | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | 3 | | | | | | | 1 3.0 |
| Skeletal Muscle | | + | + | 48 |
| NERVOUS SYSTEM | | | | |
| Brain, Brain Stem | | + | + | 48 |
| Gliosis, Focal | | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 1.0 |
| Hypothalamus, Compression | | | | | | | | | | | | | | 2 | | 2 | | | | 3 | | | | | 6 2.3 |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 2.0 |
| Brain, Cerebellum | | + | + | 48 |
| Brain, Cerebrum | | + | + | 48 |
| Mineralization | | | | 1 1.0 |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 2.0 |
| Peripheral Nerve, Sciatic | | + | + | 48 |
| Axon, Degeneration | | | | | | | 1 | | | | | 1 | | | 1 | | | | | | | | | | 5 1.0 |
| Spinal Cord, Cervical | | + | + | 47 |
| Axon, Degeneration | | | | | 1 | | | | 1 | | 1 | | 1 | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | | 20 1.0 |
| Nerve, Degeneration | | | | 2 1.0 |
| Spinal Cord, Lumbar | | + | + | 47 |
| Cyst | | | | 1 |
| Axon, Degeneration | | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | 6 1.0 |
| Nerve, Degeneration | | 1 | | | 1 | | | | 1 | | | | 1 | | 1 | 1 | | | | 2 | 1 | | | | 16 1.1 |
| Spinal Cord, Thoracic | | + | + | 47 |

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

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 2) Mild 4) Marked

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 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | | DAY ON TEST | | | | |
|---|--|-----------------------|----------|-----|--|
| | | 0
7
4
4 | 0
5
9
4 | 0
4
9
2 | 0
6
4
9 | 0
6
7
7 | 0
7
1
1 | 0
7
0
4 | 0
5
4
4 | 0
7
4
4 | 0
7
4
4 | 0
5
2
3 | 0
6
9
0 | 0
6
9
8 | 0
6
9
0 | 0
7
4
4 | 0
7
4
4 | 0
5
5
9 | 0
5
4
8 | 0
6
7
4 | 0
7
4
4 | 0
7
0
5 | 0
6
2
0 | 0
5
6
2 | | | |
| ANIMAL ID | | 0
1
9
1
2 | 0
1
9
2
1 | 0
1
9
2
2 | 0
1
9
3
1 | 0
1
9
3
2 | 0
1
9
4
1 | 0
1
9
4
2 | 0
2
2
6
1 | 0
2
2
6
2 | 0
2
2
7
1 | 0
2
2
7
2 | 0
2
2
8
1 | 0
2
2
8
2 | 0
2
2
9
1 | 0
2
2
9
2 | 0
2
3
5
1 | 0
2
3
5
2 | 0
2
3
6
1 | 0
2
3
6
2 | 0
2
3
7
1 | 0
2
3
7
2 | 0
2
3
8
1 | 0
2
3
8
2 | * TOTALS | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Axon, Degeneration | | 1 | | | | 1 | 1 | 1 | | 1 | 1 | | | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 22 | 1.0 | |
| Nerve, Degeneration | | | | | | | | | | | | | | | | | | | 1 | | | | | | 4 | 1.0 | |

RESPIRATORY SYSTEM

| | |
|---|-------|
| Lung | + | 48 |
| Granuloma | | | | | | | 2 | | | | | | | | | | | | | | | | | 2 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 2.0 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | 1 | | 1 | | | 2 | | | | 1 | | | | | | | 6 1.3 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | 48 |
| Fungus | | | | | | | | | | | | | | | | | 3 | | | | | | | 1 |
| Inflammation | | | | | | | | | | | | | | | | | | 2 | | | | | | 2 2.5 |
| Keratin Cyst | 1 |
| Trachea | + | 48 |

SPECIAL SENSES SYSTEM

| | |
|-----------------------------------|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | 44 |
| Cataract | 1 |
| Phthisis Bulbi | 1 |
| Retina, Degeneration | 2 2.5 |
| Sclera, Metaplasia, Osseous | | | | | 3 | 2 | | | | | | | | | 2 | 2 | | | | | | | | 8 2.1 |
| Harderian Gland | + | 48 |
| Infiltration Cellular, Lymphocyte | | 2 | | | | | | | | | | | | | | | 2 | | | | 1 | | 1 | 7 1.4 |
| Lacrimal Gland | + | | 1 |

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 M .. Missing tissue
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 BLANK .. Not examined microscopically

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TDMS No. 20313 - 05
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Species/Strain: RATS/F 344/NCTR

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Acrylamide
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Time Report Requested: 14:38:46
First Dose M/F: 05/23/05 / 05/23/05
Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
CONTROL WATER | DAY ON TEST | 0
7
4
4 | 0
5
9
4 | 0
4
9
2 | 0
6
4
9 | 0
6
7
7 | 0
7
1
1 | 0
7
0
4 | 0
5
4
4 | 0
7
4
4 | 0
7
4
4 | 0
5
2
3 | 0
6
9
0 | 0
6
9
8 | 0
6
9
0 | 0
7
4
4 | 0
7
4
4 | 0
5
5
9 | 0
5
4
8 | 0
6
7
4 | 0
7
4
4 | 0
7
0
5 | 0
6
2
0 | 0
5
6
2 | | |
|---|-------------|-----------------------|----|------------|
| | ANIMAL ID | 0
1
9
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3
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3
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1
9
4
1 | 0
1
9
4
2 | 0
2
2
6
1 | 0
2
2
6
2 | 0
2
2
7
1 | 0
2
2
7
2 | 0
2
2
8
1 | 0
2
2
8
2 | 0
2
2
9
1 | 0
2
2
9
2 | 0
2
3
5
1 | 0
2
3
5
2 | 0
2
3
6
1 | 0
2
3
6
2 | 0
2
3
7
1 | 0
2
3
7
2 | 0
2
3
8
1 | 0
2
3
8
2 | | |
| | | * TOTALS | | | |
| Zymbal's Gland | 1 | | | |
| URINARY SYSTEM | | | | |
| Kidney | + | + | 47 | |
| Cyst | | | 1 | |
| Hydronephrosis | | | 1 | |
| Nephropathy | 3 | 2 | 1 | 2 | 4 | 3 | 2 | 2 | 3 | 4 | 3 | 3 | 4 | 2 | 3 | 4 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | | 46 | 2.0
2.7 |
| Urinary Bladder | + | + | 46 | |
| Dilatation | | | 3 | 3.3 |

*** 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

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TDMS No. 20313 - 05
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 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

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

ALIMENTARY SYSTEM

| | |
|---|---|
| Esophagus
Inflammation | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Small, Jejunum
Keratin Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Liver
Apoptosis | + |
| Basophilic Focus, Multiple
Degeneration, Cystic
Eosinophilic Focus
Eosinophilic Focus, Multiple
Granuloma | | | | | | X | X | X | X | | | | | X | X | X | X | | X | | | | | | | X |
| Hematopoietic Cell Proliferation | | 2 |
| Hepatodiaphragmatic Nodule | X | |
| Infiltration Cellular, Lymphocyte
Inflammation | | 1 |

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

Stomach, Glandular
 Hemorrhage
 Inflammation

+
 2

Tongue
 Hyperplasia

+
 2

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart
 Cardiomyopathy
 Inflammation
 Atrium, Thrombosis
 Myocardium, Hyperplasia

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

ENDOCRINE SYSTEM

Adrenal Cortex
 Accessory Adrenal Cortical Nodule
 Angiectasis
 Hyperplasia, Focal
 Hypertrophy, Focal
 Thrombosis
 Vacuolization Cytoplasmic

+
 X
 3 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
 3

Adrenal Medulla
 Hyperplasia, Focal

+
 2

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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | DAY ON TEST | 0
7
2
4 | 0
2
9
2 | 0
4
3
1 | 0
7
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4 | 0
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4 | 0
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3 | 0
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9 | 0
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3 | 0
7
3
0 | 0
7
4
4 | 0
5
7
0 | 0
6
7
3 | 0
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4 | 0
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3
7 | 0
6
2
5 | 0
6
0
6 | 0
4
8
1 | 0
7
2
6 | females
(cont...) | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|--|--|
| | ANIMAL ID | 0
0
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1
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3
1 | 0
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3
2 | 0
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2
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4
1 | 0
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2 | 0
0
2
2
5
1 | 0
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2
2
5
2 | 0
0
9
1
1 | 0
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9
2
2 | 0
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9
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2 | 0
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9
3
3 | 0
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2 | 0
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1 | 0
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9
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2 | 0
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9
5
1 | 0
0
9
5
2 | 0
1
3
6
1 | 0
1
3
6
2 | 0
1
3
7
1 | 0
1
3
7
2 | 0
1
3
8
1 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | X | X | | | | X | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | | |
| C-cell, Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | 3 | | 4 | | | |
| Follicle, Cyst | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Inflammation | | | 1 | | | 3 | | 2 | | | | | 2 | 2 | 2 | 3 | | 3 | | 3 | | | 1 | 1 | | | | |
| Duct, Ectasia | | 3 | | | 3 | | | | | | | | 3 | | 3 | 3 | 3 | | 3 | | 3 | | 3 | | | | | |
| Ovary | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | 3 | | 4 | 3 | 2 | 2 | 2 | 4 | 3 | 2 | | 3 | 2 | 1 | 3 | 2 | 3 | 4 | 3 | 4 | 3 | 2 | | 2 | 3 | | |
| Cyst | | | | | | X | | | | | X | | | | | | | | | | | | | | | X | | |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cervix, Mucocyte, Metaplasia | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | |

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

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

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | DAY ON TEST | 0
7
2
4 | 0
2
9
2 | 0
4
3
1 | 0
7
4
4 | 0
6
1
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7
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4 | 0
7
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4 | 0
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4 | 0
7
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4 | 0
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6 | 0
3
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9 | 0
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3 | 0
7
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9 | 0
7
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3 | 0
7
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3 | 0
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4 | 0
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6 | 0
4
8
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7
2
6 | females
(cont...) |
|--|--|-----------------------|----------------------|
| | ANIMAL ID | 0
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3
6
2 | 0
1
3
7
1 | 0
1
3
7
2 | 0
1
3
8
1 | |
| | Endometrium, Hyperplasia, Cystic
Horn, Dilatation | 2 | | | | 2 | | 3 | | 3 | | | | | | 2 | | | | | | 2 | | 1 | | |
| Vagina
Dilatation
Mucocyte, Metaplasia | + | | | | | | | | | | | | + | | | | | | | | | | | | 4 | |

HEMATOPOIETIC SYSTEM

| | |
|--|---|
| Bone Marrow | + |
| Atrophy | | | | | | | | | | | 3 | | | | | | | | | | | | 2 | | | |
| Hyperplasia | | | 3 | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Lymph Node | | | + | | | | | | | + | + | | | | | | | | | | | | | | | + |
| Axillary, Infiltration Cellular, Plasma Cell | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Iliac, Degeneration, Cystic |
| Lumbar, Degeneration, Cystic |
| Lumbar, Medulla, Sinus, Dilatation | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | 3 | |
| Mediastinal, Hyperplasia, Lymphoid | | | 3 | |
| Mediastinal, Pigmentation | 3 | |
| Mediastinal, Medulla, Sinus, Dilatation |
| Pancreatic, Necrosis | | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Renal, Degeneration, Cystic | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + |
| Degeneration, Cystic | 2 | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Hyperplasia, Lymphoid |

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

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

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | | DAY ON TEST | | | females
(cont...) |
|--|--|-------------|--|----------------------|
| | | 0724 | 0292 | 0431 | 0744 | 0612 | 0774 | 0774 | 0774 | 0774 | 0436 | 0369 | 0672 | 0773 | 0773 | 0774 | 0570 | 0673 | 0574 | 0737 | 0625 | 0606 | 0481 | 0726 | | | | | | |
| ANIMAL ID | | 0021 | 0021 | 0022 | | |
| | | 11 | 11 | 22 | | |

| | |
|------------------------------|--|
| Bone | |
| Bone, Femur
Osteopetrosis | + | |
| | | | | | | 4 | | | | | | | | | | | 3 | | | | | | | | |
| Skeletal Muscle | + | |

NERVOUS SYSTEM

| | |
|---|---|
| Brain, Brain Stem
Hypothalamus, Compression | + |
| | |
| Brain, Cerebellum | + |
| Brain, Cerebrum
Compression
Gliosis, Focal
Ventricle, Dilatation | + |
| | |
| Peripheral Nerve, Sciatic
Axon, Degeneration | + |
| | |
| Spinal Cord, Cervical
Cyst
Gliosis, Focal
Axon, Degeneration | + |
| | |
| Spinal Cord, Lumbar
Gliosis, Focal
Axon, Degeneration | + |
| | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | DAY ON TEST | 0
7
2
4 | 0
2
9
2 | 0
4
3
1 | 0
7
4
4 | 0
6
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2 | 0
7
4
4 | 0
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4
4 | 0
7
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4 | 0
7
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4 | 0
4
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6 | 0
3
5
9 | 0
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9
3 | 0
7
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9 | 0
7
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3 | 0
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7
4
4 | 0
5
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0 | 0
6
7
3 | 0
5
5
4 | 0
7
3
7 | 0
6
2
5 | 0
6
0
6 | 0
4
8
1 | 0
7
2
6 | females
(cont...) | |
|--|-------------|----------------------|-----------------------|
| | ANIMAL ID | 0
0
2
1
1 | 0
0
2
1
2 | 0
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2
2
1 | 0
0
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2 | 0
0
2
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3 | 0
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3 | 0
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2 | 0
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3
6
1 | 0
1
3
6
2 | 0
1
3
7
1 | 0
1
3
7
2 | | 0
1
3
8
1 |
| | | | |
| Nerve, Degeneration | | 1 | | | | | | | 1 | 1 | | | | | 1 | 1 | | | | | | 1 | | | | 1 | |
| Spinal Cord, Thoracic | | + | |
| Glios, Focal | | | 1 | | | | | |
| Axon, Degeneration | | | | | | 1 | | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | | | | 1 | | | |
| Nerve, Degeneration | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | |
|---|--|
| Lung | + | |
| Granuloma | | | | | | | | 1 | | | | | | | | 2 | 2 | | 3 | | | | | | | | |
| Inflammation | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 3 | |
| Alveolus, Infiltration Cellular, Histiocyte | 3 | 1 | | 1 | | 2 | | | | | | | | | | | | | | | | 1 | 1 | | | | |
| Nose | + | |
| Fungus | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Inflammation | 2 | | | | | | | | | | 2 | | 2 | 2 | | 2 | 2 | | | | | | | | | | |
| Osteopetrosis | | | | | | 3 | | | | | | | | | | | | | | | | 3 | | | | | |
| Trachea | + | |

SPECIAL SENSES SYSTEM

| |
|-----------------------------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |
| Cataract | X |
| Retina, Degeneration | 2 | | | 2 | | 2 | 2 | 2 | 2 | | 2 | | 1 | | 1 | 2 | | | | 3 | 2 | | 3 | |
| Sclera, Metaplasia, Osseous | 2 | |
| Harderian Gland | + |

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

+ .. Tissue examined microscopically

X .. Lesion 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. 20313 - 05
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 Species/Strain: RATS/F 344/NCTR

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | DAY ON TEST | 0
7
2
4 | 0
2
9
2 | 0
4
3
1 | 0
7
4
4 | 0
6
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2 | 0
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4
4 | 0
7
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4 | 0
7
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4 | 0
7
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4 | 0
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9 | 0
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5
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4 | 0
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2
5 | 0
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6 | 0
4
8
1 | 0
7
2
6 | females
(cont...) | |
|--|-------------|----------------------|--|
| | ANIMAL ID | 0
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6
2 | 0
1
3
7
1 | 0
1
3
7
2 | 0
1
3
8
1 | | |
| | | | |
| Infiltration Cellular, Lymphocyte
Inflammation | | 2 | 1 | 1 | | 2 | 1 | | | | | 2 | | 1 | 1 | 1 | | | | | | | | 1 | | | |
| Lacrimal Gland | | | |
| Zymbal's Gland
Hyperplasia | | | + | | + | 3 | | |
| URINARY SYSTEM | | | |
| Kidney | | + | |
| Cyst | | | | X | | | | | | | | | | | X | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Mineralization | | | | 2 | | | 1 | | | 2 | 1 | 1 | | | | 1 | | | | 2 | 2 | | | | 1 | | |
| Nephropathy | | 2 | | | 2 | | 1 | 1 | 2 | | 2 | | 1 | | | 4 | | | | | | 2 | 1 | 1 | 1 | | |
| Urinary Bladder | | + | |
| Dilatation | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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M .. Missing tissue
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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | | DAY ON TEST | | | | | |
|--|--|-----------------------|----------|--|--|--|
| | | 0
7
4
4 | 0
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3 | 0
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| ANIMAL ID | | 0
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2 | * TOTALS | | | |
| | | | | | | |

ALIMENTARY SYSTEM

| | |
|-----------------------------------|--------|
| Esophagus | + | 48 |
| Inflammation | 4 | | 1 4.0 |
| Intestine Large, Cecum | + | 47 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 47 |
| Intestine Large, Rectum | + | 47 |
| Intestine Small, Duodenum | + | 47 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 46 |
| Lymphoid Tissue, Hyperplasia | 1 4.0 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 46 |
| Keratin Cyst | X | | 1 |
| Liver | + | 48 |
| Apoptosis | X | | 1 |
| Basophilic Focus, Multiple | X | | | X | | X | | X | | | | | X | | X | | X | | | X | X | | | 19 |
| Degeneration, Cystic | | | | | | | 4 | | | | | | | | | | | | | | | | | 2 3.5 |
| Eosinophilic Focus | 1 |
| Eosinophilic Focus, Multiple | X | | | | | | | | | | | | | | | | X | | | | | | | 3 |
| Granuloma | | | 2 | 2 | | 1 | | | | | | | | | 2 | | | | 1 | 1 | | | | 11 1.7 |
| Hematopoietic Cell Proliferation | | | | | | | | | | 2 | | | | | | 2 | | | | | | | | 5 2.0 |
| Hepatodiaphragmatic Nodule | 3 |
| Infiltration Cellular, Lymphocyte | | 1 | | | | | | | | | | | | | | | | | | | 1 | | | 3 1.0 |
| Inflammation | 2 | | 1 2.0 |

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

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | | DAY ON TEST | | | | | |
|--|--|-----------------------|----|--------|-------|--|
| | | 0
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| ANIMAL ID | | 0
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| | | * TOTALS | | | | | |
| Stomach, Glandular Hemorrhage Inflammation | | + | 48 | 1 2.0 | 1 2.0 | |
| Tongue Hyperplasia | | | | | | | | | | | | + | | | | | | | + | | | | | 3 | 1 2.0 | | |
| CARDIOVASCULAR SYSTEM | | | | | | |
| Blood Vessel | | + | 48 | | | |
| Heart | | + | 48 | 30 2.0 | | |
| Cardiomyopathy | | 3 | | 2 | 2 | | 2 | 2 | | 2 | | 2 | 1 | | 2 | | 2 | 2 | | 2 | 2 | | 2 | | 30 2.0 | | |
| Inflammation | | 3 | | 1 3.0 | | |
| Atrium, Thrombosis | | | | | | | | | | | X | | | | | | | | | | | | | | 3 | | |
| Myocardium, Hyperplasia | | | | | | | | | | | | | | | | | | | 4 | | | | | | 1 4.0 | | |
| ENDOCRINE SYSTEM | | | | | | |
| Adrenal Cortex | | + | 48 | 1 | | |
| Accessory Adrenal Cortical Nodule | | | | 20 2.1 | | |
| Angiectasis | | | | | 3 | | | 2 | | 2 | 2 | | 2 | | 2 | | | 2 | | | | 2 | | | 2 2.0 | | |
| Hyperplasia, Focal | | | | 10 2.5 | | |
| Hypertrophy, Focal | | 3 | | | | | | | 3 | | | | | | 2 | | 2 | 2 | | | | 3 | | | 1 3.0 | | |
| Thrombosis | | | | 9 2.6 | | |
| Vacuolization Cytoplasmic | | | | | | | | 3 | | 2 | 2 | | | 2 | | 3 | | | 3 | 2 | | | | | | | |
| Adrenal Medulla | | + | 48 | 1 2.0 | | |
| Hyperplasia, Focal | | | | | | |
| <div><div>* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade</div><div><div>+ .. Tissue examined microscopically</div><div>X .. Lesion present</div><div>I .. Insufficient tissue</div></div><div><div>M .. Missing tissue</div><div>A .. Autolysis precludes evaluation</div><div>BLANK .. Not examined microscopically</div></div><div>1-4 .. Lesion qualified as:<div><div>1) Minimal</div><div>2) Mild</div><div>3) Moderate</div><div>4) Marked</div></div></div></div> | | | | | | |

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | DAY ON TEST | 0
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| | * TOTALS | | | |
| Islets, Pancreatic | + | + | 48 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Pituitary Gland | + | + | 48 | |
| Pars Distalis, Cyst | | | | | X | | | | | | | | | | | | | | | | | | 4 | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | 2 | | | 2 | | | | | | 3 | | | 4 2.3 | |
| Thyroid Gland | + | + | 47 | |
| C-cell, Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | 2 | 1 | 6 2.3 | |
| Follicle, Cyst | | | 1 | |
| Follicular Cell, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | 2 2.5 | |
| GENERAL BODY SYSTEM | | | | |
| Tissue NOS | + | | 1 | |
| GENITAL SYSTEM | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 47 | |
| Hyperplasia | | | 1 2.0 | |
| Inflammation | | | | 2 | 2 | | | | | 3 | 2 | 2 | 2 | 4 | 2 | | | 4 | | 2 | 3 | | 22 2.3 | |
| Duct, Ectasia | | | 2 | 3 | | 2 | 4 | | 2 | | | | | 3 | | 4 | | 3 | | | | | 16 2.9 | |
| Ovary | + | + | 48 | |
| Atrophy | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 4 | | 4 | 3 | 4 | 3 | 2 | 2 | | 2 | 3 | 2 | 3 | 2 | 43 2.6 |
| Cyst | | | | | | | | | | | X | | | X | | | | | | | | | 5 | |
| Uterus | + | + | 48 | |
| Cervix, Mucocyte, Metaplasia | | | 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

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | DAY ON TEST | 0
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| | * TOTALS | | | | |
| Endometrium, Hyperplasia, Cystic
Horn, Dilatation | | 1 | | | | | | 2 | | 2 | | | 1 | 2 | 2 | | | | | | | | | 12
1 | 1.8
3.0 |
| Vagina | + | | | | | | | + | | | | | | | | + | | | | | | | | 5 | |
| Dilatation | X | | | 1 | |
| Mucocyte, Metaplasia | | | | | | | | 2 | | | | | | | | 3 | | | | | | | | 3
3 | 3.0 |
| HEMATOPOIETIC SYSTEM | | | | | |
| Bone Marrow | + | + | + | 48 | |
| Atrophy | | | | | | | | 2 | | | | | | | | | | | | | | | | 3
3 | 2.3
2.3 |
| Hyperplasia | | 2 | | 1
1 | 2.0 |
| Myeloid Cell, Hyperplasia | | | | | |
| Lymph Node | | | | | | | | + | | + | | | + | + | + | | | | | | | | | 9 | |
| Axillary, Infiltration Cellular, Plasma Cell | | | | 1
1 | 3.0
4.0 |
| Iliac, Degeneration, Cystic | | | | | | | | | | | | | | | 4 | | | | | | | | | 1
1 | 4.0 |
| Lumbar, Degeneration, Cystic | | | | | | | | | | | | | | | 4 | | | | | | | | | 1
1 | 4.0 |
| Lumbar, Medulla, Sinus, Dilatation | | | | 1
1 | 3.0 |
| Mediastinal, Hemorrhage | | | | 1
1 | 3.0 |
| Mediastinal, Hyperplasia, Lymphoid | | | | 1
1 | 3.0 |
| Mediastinal, Pigmentation | | | | 1
1 | 3.0 |
| Mediastinal, Medulla, Sinus, Dilatation | | | | | | | | | | | | | | 3 | | | | | | | | | | 1
1 | 3.0 |
| Pancreatic, Necrosis | | | | 1
1 | 3.0 |
| Renal, Degeneration, Cystic | | | | 1
1 | 2.0 |
| Renal, Hyperplasia, Lymphoid | | | | 1
1 | 3.0 |
| Lymph Node, Mandibular | + | + | + | 48 | |
| Degeneration, Cystic | | | | 1 | | | | | | | | | 2 | | | | | | | | | | | 4
1 | 1.8
2.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | 2 | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | | DAY ON TEST | | | |
|--|--|--------------------------------------|--|----------------|
| | | 0
7
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| ANIMAL ID | | 0
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1 | 0
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2 | | | |
| | | * TOTALS | | | |
| Infiltration Cellular, Plasma Cell
Medulla, Sinus, Dilatation | | 2 | | | | | | | | | | | | 3 | | | | | | 2 | | | | | | 8 2.3
1 2.0 |
| Lymph Node, Mesenteric
Degeneration, Cystic
Hemorrhage
Lymphocyte, Atrophy | | + | 48
1 4.0
1 2.0
1 3.0 | | |
| Spleen
Hematopoietic Cell Proliferation
Infarct
Pigmentation
Red Pulp, Atrophy | | + | 48
15 3.0
3
5 2.4
1 3.0 | | |
| Thymus
Atrophy
Cyst | | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46
40 2.2
1 | | |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland
Galactocele
Inflammation
Lactation
Alveolus, Hyperplasia | | + | 48
6
1 3.0
23 2.0
26 2.5 | | |
| Skin | | + | 48 | | |

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | DAY ON TEST | 0
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| | ANIMAL ID | 0
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| | * TOTALS | | |
| Bone | | + | | 1 | |
| Bone, Femur
Osteopetrosis | | + | 48 |
| | | 2 | | 3 3.0 | |
| Skeletal Muscle | | + | 48 |
| NERVOUS SYSTEM | | | |
| Brain, Brain Stem
Hypothalamus, Compression | | + | 48 |
| | | 2 | | 3 1 8 2.4 | |
| Brain, Cerebellum | | + | 48 |
| Brain, Cerebrum
Compression
Gliosis, Focal
Ventricle, Dilatation | | + | 48 |
| | | 2 | | 1 2.0 | |
| | | | 1 2.0 | |
| | | 2 | | 2 2.0 | |
| Peripheral Nerve, Sciatic
Axon, Degeneration | | + | 48 |
| | | 1 | | 19 1.0 | |
| Spinal Cord, Cervical
Cyst
Gliosis, Focal
Axon, Degeneration | | + | 48 |
| | | | 1 | |
| | | | 1 2.0 | |
| | | 1 | | 10 1.0 | |
| Spinal Cord, Lumbar
Gliosis, Focal
Axon, Degeneration | | + | 48 |
| | | | 2 2.0 | |
| | | | 2 1.0 | |

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FEMALE
0.70 ACRYL | DAY ON TEST | | | | | | |
|--|-----------------------|----|----|----------|-----|-----|
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| | | | | * TOTALS | | |
| Nerve, Degeneration | | | | 15 | 1.0 | |
| Spinal Cord, Thoracic | + | + | 48 | | | |
| Gliosis, Focal | | | | 1 | 1.0 | |
| Axon, Degeneration | | | | 16 | 1.0 | |
| Nerve, Degeneration | | | | 1 | 1.0 | |
| RESPIRATORY SYSTEM | | | | | | |
| Lung | + | + | 48 | | | |
| Granuloma | | | | 4 | 2.0 | |
| Inflammation | 3 | | | | 4 | 1.8 |
| Alveolar Epithelium, Hyperplasia | | | | 2 | 3.0 | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | 8 | 1.6 | |
| Nose | + | 48 | | | | |
| Fungus | | | | 1 | | |
| Inflammation | | | | 8 | 1.9 | |
| Osteopetrosis | | | | 2 | 3.0 | |
| Trachea | + | 48 | | | | |
| SPECIAL SENSES SYSTEM | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 46 | | | | |
| Cataract | | | | 1 | | |
| Retina, Degeneration | 2 | | | | 23 | 2.1 |
| Sclera, Metaplasia, Osseous | | | | 1 | 2.0 | |
| Harderian Gland | + | 48 | | | | |
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 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.70 ACRYL | DAY ON TEST | 0
7
4
4 | 0
4
2
3 | 0
3
8
6 | 0
7
1
9 | 0
5
5
5 | 0
7
4
4 | 0
7
4
4 | 0
7
1
6 | 0
5
5
7 | 0
6
4
6 | 0
5
6
9 | 0
7
4
8 | 0
6
7
5 | 0
4
8
7 | 0
7
4
4 | 0
6
8
6 | 0
7
3
3 | 0
6
6
8 | 0
4
8
1 | 0
5
5
1 | 0
5
7
1 | 0
4
2
5 | | | |
|--|-------------|-----------------------|---|--------------------------|------------------------|
| | ANIMAL ID | 0
1
3
8
2 | 0
1
3
9
1 | 0
1
3
9
2 | 0
1
4
0
1 | 0
1
4
0
2 | 0
1
6
1
1 | 0
1
6
1
2 | 0
1
6
2
2 | 0
1
6
3
2 | 0
1
6
3
2 | 0
1
6
4
1 | 0
1
6
4
2 | 0
1
6
5
1 | 0
1
6
5
2 | 0
2
1
0
1 | 0
2
1
0
2 | 0
2
1
1
1 | 0
2
1
1
2 | 0
2
1
1
2 | 0
2
2
2
2 | 0
2
2
3
1 | 0
2
2
3
2 | | | |
| | * TOTALS | | | | |
| Infiltration Cellular, Lymphocyte
Inflammation | | | | 2 | | | 1 | | | 1 | | 2 | | | | | | | 2 | 1 | 2 | | | | 17
1 | 1.4
2.0 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | + | | | | 1 | |
| Zymbal's Gland
Hyperplasia | | | | | | | | | | | | + | | | | | | | | | | | | | 3
1 | 3.0 |
| URINARY SYSTEM | | | | | |
| Kidney
Cyst
Hydronephrosis
Mineralization
Nephropathy | | + | + | 48
2
1
24
26 | 2
2.0
1.5
1.7 |
| Urinary Bladder
Dilatation
Infiltration Cellular, Lymphocyte | | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47
1
1 | 4.0
1.0 |

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

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

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

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

ALIMENTARY SYSTEM

| | |
|--|---|
| Esophagus | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Large, Colon | + | A | + | + | + | + |
| Intestine Large, Rectum | + | A | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | 3 | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | A | + | + | + | + | + |
| Liver | + |
| Angiectasis | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Basophilic Focus |
| Basophilic Focus, Multiple | X | X | X | | X | X | | X | X | | | X | X | X | | | | X | X | | X | | | X | | | |
| Degeneration, Cystic | | | | 3 | |
| Eosinophilic Focus | X | | X | | | | | | X | | | X | X | | | | | | | | | | | | | | |
| Eosinophilic Focus, Multiple | | | | X | X | |
| Granuloma | | 2 | | | 2 | 2 | | | 2 | | 1 | | | 2 | | | | 1 | 2 | | 2 | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | 1 | 3 | | | | | |
| Centrilobular, Cytoplasmic Alteration | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |

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

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

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Species/Strain: RATS/F 344/NCTR

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Lab: NCTR

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

Atrium, Thrombosis

ENDOCRINE SYSTEM

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

GENERAL BODY SYSTEM

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

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

NONE

GENITAL SYSTEM

| |
|----------------------------------|
| Clitoral Gland | + |
| Hyperplasia |
| Inflammation | 2 | | 2 | | 2 | 2 | | 2 | | 2 | | | 2 | 3 | 2 | 2 | | | | | 3 | 2 | 2 | 4 | | | |
| Duct, Ectasia | 4 | | | | | | | | | 2 | 3 | | | | | | | | | | 3 | | | 4 | | | |
| Ovary | + |
| Atrophy | 2 | 3 | 3 | 4 | 2 | 2 | 4 | 3 | 2 | | 2 | 2 | 4 | 2 | 3 | 3 | | 2 | 2 | 4 | 4 | 2 | | 2 | 4 | | |
| Cyst | | | | | | X | | | | | | | | | | X | | X | | | | | | | | | |
| Uterus | + |
| Inflammation | 2 | | 1 | | | | |
| Prolapse |
| Endometrium, Hyperplasia, Cystic | | | 2 | 2 | | | 2 | | 2 | | | | | | | | | | | 2 | 2 | | | | | 2 | |
| Vagina | | | | | | | | | | | | | | | | + | | | | | | | | | | + | |
| Inflammation | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 2 | |
| Mucocyte, Metaplasia |

HEMATOPOIETIC SYSTEM

| |
|---------------------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 |
| Hyperplasia | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Lymph Node | | | | + | | | + | | | | | | | | | | | | | + | | | | | | + | |

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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.35 ACRYL | DAY ON TEST | 0
7
4
4 | 0
6
1
8 | 0
6
2
0 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
6
7
0 | 0
6
8
6 | 0
7
4
0 | 0
4
6
0 | 0
2
6
4 | 0
7
4
4 | 0
7
4
3 | 0
7
4
3 | 0
4
3
4 | 0
7
3
4 | 0
2
9
3 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
0
1 | 0
5
8
4 | 0
7
4
4 | 0
7
0
4 | females
(cont...) |
|--|-------------|----------------------|
| | ANIMAL ID | 0
0
0
6
1 | 0
0
0
6
2 | 0
0
0
7
1 | 0
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2 | 0
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8
1 | 0
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2 | 0
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9
1 | 0
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2 | 0
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3 | 0
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4 | 0
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2 | 0
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5 | 0
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2 | 0
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1 | 0
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8
2 | 0
1
1
1
1 | 0
1
1
1
2 | 0
1
1
2
1 | 0
1
1
2
2 | 0
1
1
3
1 | |
| | | |
| Degeneration, Cystic
Mediastinal, Inflammation | | |
| Lymph Node, Mandibular
Degeneration, Cystic
Infiltration Cellular, Plasma Cell | | + |
| | | 2 | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric
Degeneration, Cystic
Hyperplasia, Lymphoid | | + | A | + | + | |
| | | | 2 | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Spleen
Hematopoietic Cell Proliferation
Pigmentation
Capsule, Proliferation Connective Tissue
Red Pulp, Atrophy
Red Pulp, Hyperplasia | | + | |
| | | | 3 | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| | | | | 2 | | | | | 2 | | | 2 | | | | | 2 | | | | | | | | | | |
| | | | | | | | | | 2 | | | | | | | 2 | | | | | | | | | | | |
| Thymus
Atrophy
Cyst | | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | 2 | | 2 | 2 | 3 | 2 | | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | | | 2 | 2 | 2 | 2 | 2 | |

INTEGUMENTARY SYSTEM

| | |
|---|---|
| Mammary Gland
Galactocoele
Lactation
Alveolus, Hyperplasia | + |
| | |
| | |
| | |
| Skin | + |

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

Inflammation 4
 Ulcer 4
 Epidermis, Hyperplasia 2

MUSCULOSKELETAL SYSTEM

| |
|-----------------|
| Bone, Femur | + |
| Osteopetrosis | | | | 3 | |
| Skeletal Muscle | + |

NERVOUS SYSTEM

| | |
|---|---|
| Brain, Brain Stem | + |
| Infiltration Cellular, Mononuclear Cell | |
| Hypothalamus, Compression | | | | | | | | | 2 | | 2 | 3 | | 3 | | | | | | 2 | | | | 1 |
| Brain, Cerebellum | + |
| Brain, Cerebrum | + |
| Ventricle, Dilatation |
| Peripheral Nerve, Sciatic | + |
| Axon, Degeneration | | | 1 | | | | | | | | | 1 | | 1 | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | + | | | | | | | | | | | | |
| Keratin Cyst | | | | | | | | | | | | X | | | | | | | | | | | | |
| Spinal Cord, Cervical | + |
| Hemorrhage | | | | | | | | | | | | | | | | 2 | | | | | | 2 | | |
| Axon, Degeneration | | 1 | 1 | | | | | | | | | 1 | 1 | | | | 1 | | | 1 | | | | 1 |

* .. 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.35 ACRYL | DAY ON TEST | 0
7
4
4 | 0
6
1
8 | 0
6
2
0 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
6
7
0 | 0
6
8
6 | 0
7
4
4 | 0
2
6
4 | 0
7
4
4 | 0
7
4
3 | 0
7
4
3 | 0
4
3
4 | 0
7
3
4 | 0
2
9
3 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
0
1 | 0
5
8
4 | 0
7
4
4 | 0
7
0
4 | females
(cont...) | | |
|--|-------------|---|----------------------|-----------------------|--|
| | ANIMAL ID | 0
0
0
6
1 | 0
0
0
6
2 | 0
0
0
7
1 | 0
0
0
7
2 | 0
0
0
8
1 | 0
0
0
8
2 | 0
0
0
9
1 | 0
0
0
9
2 | 0
0
0
1
1 | 0
0
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1
8 | 0
0
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1 | 0
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1
1 | 0
1
1
1
1 | 0
1
1
2
2 | 0
1
1
2
2 | | 0
1
1
3
3 | |
| | | | | | |
| Nerve, Degeneration | | 1 | | | |
| Spinal Cord, Lumbar
Axon, Degeneration
Nerve, Degeneration | | + | + | + | |
| | | 111 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
 CAS Number: 79-06-1

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 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.35 ACRYL | DAY ON TEST | 0
7
4
4 | 0
6
1
8 | 0
6
2
0 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
6
7
0 | 0
6
8
6 | 0
7
4
4 | 0
4
6
0 | 0
2
6
4 | 0
7
4
4 | 0
7
4
3 | 0
7
4
3 | 0
4
3
4 | 0
7
3
4 | 0
2
9
3 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
0
1 | 0
5
8
4 | 0
7
4
4 | 0
7
0
4 | females
(cont...) | |
|---|-------------|----------------------|--|
| | ANIMAL ID | 0
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6
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6
2 | 0
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7
2 | 0
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1 | 0
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8
2 | 0
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4 | 0
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8
5 | 0
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8
2 | 0
1
1
1
1 | 0
1
1
1
2 | 0
1
1
2
1 | 0
1
1
2
2 | 0
1
1
3
1 | | |
| | | | |
| Phthisis Bulbi
Retina, Degeneration | | 1 | | | | 2 | | | 1 | | | 2 | 1 | 2 | | | | 2 | | | 1 | | | | 1 | | | |
| Harderian Gland
Infiltration Cellular, Lymphocyte
Inflammation | | + | | |
| | | | 1 | 2 | 1 | | 2 | | | | | 2 | | 2 | | | 2 | | | 2 | | | 1 | | | | | |
| URINARY SYSTEM | | | |
| Kidney
Accumulation, Hyaline Droplet
Mineralization
Nephropathy
Pigmentation
Cortex, Inflammation, Chronic | | + | | |
| | | | 2 | | | 1 | | | 2 | 2 | | | 1 | | | | 2 | 2 | | 2 | 2 | | 2 | | 2 | | | |
| | | 2 | 1 | 1 | 1 | 2 | 1 | | 3 | | | 3 | 1 | | | 2 | | 2 | 2 | | 1 | | 1 | 2 | 1 | | | |
| | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder
Dilatation | | + | | |
| | | | | | | | | | | | | | | 4 | | 3 | | | | | | | | | | | | |

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

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

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TDMS No. 20313 - 05
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 Species/Strain: RATS/F 344/NCTR

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 Lab: NCTR

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

ALIMENTARY SYSTEM

| | |
|---------------------------------------|--------|
| Esophagus | + | 48 |
| Intestine Large, Cecum | + | 46 |
| Intestine Large, Colon | + | 47 |
| Intestine Large, Rectum | + | 47 |
| Intestine Small, Duodenum | + | 46 |
| Intestine Small, Ileum | + | 46 |
| Lymphoid Tissue, Hyperplasia | 1 3.0 |
| Intestine Small, Jejunum | + | 45 |
| Liver | + | 48 |
| Angiectasis | 1 2.0 |
| Basophilic Focus | | | | | | | | | | X | | | | | | | | X | | | | | | | 2 |
| Basophilic Focus, Multiple | X | X | | X | X | | X | | | | | X | | | | X | X | | X | | | | | | 23 |
| Degeneration, Cystic | | | | | | | | | | 2 | | | | | | | | | | | | | | | 2 2.5 |
| Eosinophilic Focus | | | | X | X | | | | | | | | | | | | | | | | | | | | 7 |
| Eosinophilic Focus, Multiple | | | | | | | | | | X | | | | | | | X | | | | | | | | 4 |
| Granuloma | | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 1 | 2 | | 2 | | | | | 2 | | 18 1.8 |
| Hematopoietic Cell Proliferation | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 2.5 |
| Hepatodiaphragmatic Nodule | 1 |
| Vacuolization Cytoplasmic | | | | | | | | 4 | | | 3 | | | | | | | | | | | | | | 3 3.7 |
| Bile Duct, Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | | | | 4 2.0 |
| Centrilobular, Cytoplasmic Alteration | | 1 3.0 |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.35 ACRYL | DAY ON TEST | 0
7
4
4 | 0
7
4
4 | 0
4
9
1 | 0
7
4
4 | 0
7
4
4 | 0
5
9
2 | 0
7
4
4 | 0
7
1
6 | 0
6
8
9 | 0
7
4
1 | 0
4
7
4 | 0
5
3
0 | 0
6
6
2 | 0
4
1
1 | 0
7
2
3 | 0
5
7
1 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
5
4
2 | 0
7
0
9 | 0
5
0
8 | | |
|--|-------------|-----------------------|---|-------|
| | ANIMAL ID | 0
1
1
3
2 | 0
1
1
4
1 | 0
1
1
4
2 | 0
1
1
5
1 | 0
1
1
5
2 | 0
1
1
6
1 | 0
1
1
6
2 | 0
1
1
7
1 | 0
1
1
7
2 | 0
1
1
8
1 | 0
1
1
8
2 | 0
1
1
9
1 | 0
2
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1 | 0
2
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0
2 | 0
2
3
1
1 | 0
2
3
2
2 | 0
2
3
3
1 | 0
2
3
3
2 | 0
2
3
3
1 | 0
2
3
3
2 | 0
2
3
4
1 | 0
2
3
4
2 | | |
| | * TOTALS | | | |
| Centrilobular, Necrosis | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | | | | | | | | | | | | X | | | | | | 6 |
| Median Lobe, Developmental Malformation | | | | 1 |
| Mesentery | | | + | | | | | | | | | | | | | | | | + | | | | | | 4 |
| Fat, Necrosis | | | 3 | | | | | | | | | | | | | | | | 4 | | | | | | 4 3.3 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | + | | | | | 3 |
| Hyperplasia | | | | 1 2.0 |
| Pancreas | | + | + | 47 |
| Accessory Spleen | | | | | | | | | | | | | | | | | X | | | | | | | | 1 |
| Acinar Cell, Atrophy | | 1 | | | | | | | | 2 | | | | | | | | | 1 | | | | | | 6 1.7 |
| Salivary Glands | | + | + | 48 |
| Stomach, Forestomach | | + | + | 48 |
| Edema | | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | | 3 2.3 |
| Ulcer | | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 3.0 |
| Stomach, Glandular | | + | + | 48 |
| Tongue | | | | | | | | | + | | | | | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | |
|----------------|----|-----|
| Blood Vessel | + | 48 |
| Heart | + | 48 |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | | 2 | 2 | 1 | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | 37 | 1.7 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

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

Atrium, Thrombosis

X

1

ENDOCRINE SYSTEM

| | | | |
|------------------------------|----|-----|-----|
| Adrenal Cortex | + | 48 | | |
| Angiectasis | 1 | 2 | | 2 | 2 | | 2 | 2 | 2 | 2 | | 3 | | | 2 | | | 3 | 3 | | | | | 23 | 2.1 |
| Hyperplasia, Focal | 2 | | | 1 | 2.0 | |
| Hypertrophy, Focal | | | | | | | | | | | | 2 | 2 | | | | | 3 | | | | | 4 | 2.3 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | 3 | | 2 | | | | | | | | | | 5 | 2.6 | |
| Adrenal Medulla | + | 47 | | |
| Angiectasis | | | | | | | | | 2 | | | | | | | | | | | | | | 1 | 2.0 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | 2.0 | |
| Islets, Pancreatic | + | 47 | | |
| Parathyroid Gland | + | 46 | | |
| Pituitary Gland | + | 48 | | |
| Angiectasis | 2 | 2.5 | |
| Pars Distalis, Cyst | X | | 1 | | |
| Pars Distalis, Hyperplasia | 4 | 3.3 | |
| Thyroid Gland | + | 48 | | |
| C-cell, Hyperplasia | | | 1 | | | | | 1 | | | | | | | | | | | | | | | 6 | 1.5 | |
| Follicle, Cyst | 1 | | |
| Follicular Cell, Hyperplasia | | | | | | 3 | | | | | | | | | | | | | | | | | 1 | 3.0 | |

GENERAL BODY SYSTEM

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 Lab: NCTR

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

NONE

GENITAL SYSTEM

| | | | |
|----------------------------------|----|----|-----|
| Clitoral Gland | + | 48 | | |
| Hyperplasia | 3 | | 1 | 3.0 |
| Inflammation | | 3 | 2 | | 2 | | | | | | 2 | 3 | 3 | 2 | 3 | | | 2 | | 2 | 3 | 2 | 1 | | 28 | 2.3 |
| Duct, Ectasia | | | | | | | 3 | 2 | | 3 | | | | | | | | | 3 | | 2 | | | | 10 | 2.9 |
| Ovary | + | 48 | | |
| Atrophy | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 2 | 4 | 3 | 3 | 2 | | 2 | | 44 | 2.8 |
| Cyst | | 3 | |
| Uterus | + | 48 | | |
| Inflammation | | 2 | 1.5 |
| Prolapse | X | | | | 1 | |
| Endometrium, Hyperplasia, Cystic | | | | 2 | | | | | | 2 | 2 | 4 | 1 | | | 1 | 1 | | 2 | | | | | | 15 | 1.9 |
| Vagina | | | | + | | | | | | | + | | | | | | | | | | | | | | 4 | |
| Inflammation | | 2 | 2.0 |
| Mucocyte, Metaplasia | | | | 4 | | | | | | | 3 | | | | | | | | | | | | | | 2 | 3.5 |

HEMATOPOIETIC SYSTEM

| | | | |
|---------------------------|----|---|-----|
| Bone Marrow | + | 47 | | |
| Atrophy | | 1 | 4.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | 2 | | | | | | | | 2 | 2.5 |
| Myeloid Cell, Hyperplasia | | 1 | 2.0 |
| Lymph Node | | | | | | + | | | + | | | | | | | | | | | | | | | | 6 | |

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.35 ACRYL | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|-----|-----|---|-----|
| | | 0
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9
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4 | 0
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4 | 0
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2 | 0
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9 | 0
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2 | 0
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3 | 0
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| ANIMAL ID | | 0
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2 | | | | | | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic
Mediastinal, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | |
| Lymph Node, Mandibular
Degeneration, Cystic
Infiltration Cellular, Plasma Cell | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 2 | 2.0 | | | |
| | | 3 | | | | | | | | | | | | 2 | 2 | 3 | | | | | | | | | | 6 | 2.7 | | | |
| Lymph Node, Mesenteric
Degeneration, Cystic
Hyperplasia, Lymphoid | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | 3 | 3.3 | | | |
| | | 3 | | | | | | | | | | | | 4 | | | | | | | | | | | 1 | 2.0 | | | | |
| Spleen
Hematopoietic Cell Proliferation
Pigmentation
Capsule, Proliferation Connective Tissue
Red Pulp, Atrophy
Red Pulp, Hyperplasia | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 7 | 3.0 | | | |
| | | 4 | | | | | | | | | | | | 3 | | | 3 | 3 | 2 | | | | | | | 6 | 2.2 | | | |
| | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | 1 | 3.0 |
| | | | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | 2.0 | | | |
| | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | 2 | 2.5 | | |
| Thymus
Atrophy
Cyst | | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 45 | 39 | 2.2 | | | |
| | | 2 | 2 | 2 | 2 | 2 | 3 | 2 | | 2 | 2 | | 3 | 3 | | 2 | 2 | 2 | 2 | 3 | 2 | 2 | | 2 | 1 | | | | | |

INTEGUMENTARY SYSTEM

| | | |
|---|-----------|--------|
| Mammary Gland
Galactocoele
Lactation
Alveolus, Hyperplasia | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| | X | 2 |
| | 1 3 2 1 2 | | | | | | | | | | | | | | | | | | | | 1 | 1 | | 22 2.0 |
| | 2 | | | 2 | 2 | | 3 | 3 | 3 | | | | 3 | | 2 | | 2 | 2 | 2 | 2 | 3 | | | 29 2.4 |
| Skin | + | + | 48 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.35 ACRYL | | DAY ON TEST | | |
|--|--|-----------------------|------------------|--|
| | | 0
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1 | 0
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4
2 | * TOTALS | |
| | | | | |

| | | |
|------------------------|---|-----|
| Inflammation | 1 | 4.0 |
| Ulcer | 1 | 4.0 |
| Epidermis, Hyperplasia | 1 | 2.0 |

MUSCULOSKELETAL SYSTEM

| | | |
|-----------------|----|-----|
| Bone, Femur | + | 48 | |
| Osteopetrosis | | | | | | | 2 | 4 | | | | | | | 3 | | 3 | | 3 | | | | | | | 6 | 3.0 |
| Skeletal Muscle | + | 48 | |

NERVOUS SYSTEM

| | | |
|---|----|-----|
| Brain, Brain Stem | + | 48 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | 1.0 |
| Hypothalamus, Compression | | | | | | | | | 2 | | | | | | | | 2 | | | | | | | | | 8 | 2.1 |
| Brain, Cerebellum | + | 48 | |
| Brain, Cerebrum | + | 48 | |
| Ventricle, Dilatation | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Peripheral Nerve, Sciatic | + | 48 | |
| Axon, Degeneration | 4 | 1.0 |
| Spinal Cord | 1 | |
| Keratin Cyst | 1 | |
| Spinal Cord, Cervical | + | 48 | |
| Hemorrhage | 2 | 2.0 |
| Axon, Degeneration | 1 | 1 | 1 | 1 | 1 | | | | 1 | | | | 1 | | 1 | | 1 | | 1 | | | | | | | 16 | 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

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 Acrylamide
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.35 ACRYL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|--------|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|---|-----|-----|-----|-----|
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4
2 | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 1.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 16 | 1.0 | | | | | |
| Spinal Cord, Thoracic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 15 1.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Axon, Degeneration | 1 | 1 | | 1 | | | | | | | | | | | | 1 | | 1 | | | | | 1 | | | 15 | | | 1.0 | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 2 | | | | | | | | 4 | 2.0 | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | 2 | | | | | | | | | | | | | | | | 3 | 2.0 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | 2 | | | | | | 1 | | 2 | 1 | | | | | | | 10 | 1.6 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 2 2.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | 3 | | | 2 | | | | | | | | 2 | | | | | | 8 | 2.5 | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | | | | | | | 2 | | | | 2 | | | | | | | | 4 | 2.3 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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TDMS No. 20313 - 05
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 CAS Number: 79-06-1

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.35 ACRYL | DAY ON TEST | 0
7
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|---|-------------|-----------------------|---|---|
| | ANIMAL ID | 0
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2 | | |
| | * TOTALS | | | |
| Phthisis Bulbi
Retina, Degeneration | | | | 1 | 1 | 2 | 2 | | 1 | 2 | | 3 | | X | 4 | 4 | 1 | | | 1 | | 2 | | | | 1
21 1.8 |
| Harderian Gland
Infiltration Cellular, Lymphocyte
Inflammation | | + | + | 48
17 1.5
1 2.0 |
| URINARY SYSTEM | | | | |
| Kidney
Accumulation, Hyaline Droplet
Mineralization
Nephropathy
Pigmentation
Cortex, Inflammation, Chronic | | + | + | 48
1 3.0
24 1.8
33 1.7
2 3.0
1 2.0 |
| Urinary Bladder
Dilatation | | + | + | 48
3 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

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | DAY ON TEST | | females
(cont...) |
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ALIMENTARY SYSTEM

| | |
|--|---|
| Esophagus | + |
| Intestine Large, Cecum | + |
| Intestine Large, Colon | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | + |
| Intestine Small, Jejunum | + |
| Liver | + |
| Angiectasis | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Basophilic Focus |
| Basophilic Focus, Multiple | X | | X | X | | | | X | X | | X | X | | X | X | | X | X | | X | X | X | X | | |
| Degeneration, Cystic | 2 | | | | | |
| Eosinophilic Focus | | | | | X | | | | | | | | | | | | | | | X | X | | | | |
| Eosinophilic Focus, Multiple | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Granuloma | 2 | 2 | | 2 | | | 2 | | 1 | | 1 | | 1 | 3 | | | | | | 2 | 2 | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | 1 | | | | | | 1 | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | X | |
| Necrosis, Coagulative | 1 | | | | | |
| Thrombosis | |
| Vacuolization Cytoplasmic | | | | 4 | | | | | 2 | | 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
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 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | | DAY ON TEST | | | females
(cont...) |
|---|------------------|--|----------------------|
| | | ANIMAL ID | | | |
| | | 0
7
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2 | 0
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2 | | | |
| Heart | | + | | |
| Cardiomyopathy | | 2 | 1 | 2 | 2 | | | | 1 | | 2 | | | | 2 | 2 | 1 | | | | | 2 | 2 | 2 | | | |
| ENDOCRINE SYSTEM | | |
| Adrenal Cortex | | + | | |
| Angiectasis | | 3 | 3 | 3 | 2 | | | | 3 | 3 | | 2 | 3 | | 2 | 2 | 1 | 3 | 2 | | 2 | 2 | 3 | 2 | | | |
| Hyperplasia, Focal | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | |
| Vacuolization Cytoplasmic | | | | | | | 2 | | | | | | 4 | | | | | | | | | | | | | | |
| Adrenal Medulla | | + | | |
| Angiectasis | | | |
| Hyperplasia, Focal | 3 | | | | | | | |
| Islets, Pancreatic | | + | | |
| Parathyroid Gland | | + | + | + | M | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Angiectasis | | 3 | | | | | | |
| Pars Distalis, Cyst | | | X | | | | | | X | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | |
| Pars Intermedia, Cyst | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | | + | | |
| C-cell, Hyperplasia | | | | 1 | | | | | | 4 | | | | | | | | | | | | | | 2 | | | |

ENDOCRINE SYSTEM

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

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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | | DAY ON TEST | | females
(cont...) |
|---|--|-----------------------|------------------|----------------------|
| | | 0
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Tissue NOS

GENITAL SYSTEM

| |
|----------------------------------|
| Clitoral Gland | + | |
| Inflammation | 3 | | | 3 | | | 2 | 3 | 2 | | 2 | 3 | | | | 2 | | | | 2 | 3 | 2 | 2 | | |
| Duct, Ectasia | | | | | | | | | 2 | | 3 | | | | | 2 | | | | 3 | 2 | | | | |
| Ovary | + | |
| Atrophy | 2 | | 3 | 2 | 2 | 1 | | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 2 | 4 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 1 | 3 |
| Cyst | X | |
| Uterus | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Cervix, Mucocyte, Metaplasia |
| Endometrial Glands, Hyperplasia | 2 | |
| Endometrium, Hyperplasia, Cystic | | 2 | 2 | | 1 | | | 2 | | | | | | 3 | | 3 | | | | | | | | | |
| Horn, Dilatation |
| Vagina | + | |
| Mucocyte, Metaplasia | 3 | |

HEMATOPOIETIC SYSTEM

| |
|-------------|
| Bone Marrow | + |
| Atrophy |
| Hyperplasia | |
| Thrombosis | |
| Lymph Node | |

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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | DAY ON TEST | 0
7
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8 | females
(cont...) |
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| | ANIMAL ID | 0
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| | | |
| Mediastinal, Hyperplasia, Lymphoid
Renal, Hemorrhage | | |
| Lymph Node, Mandibular
Degeneration, Cystic
Hyperplasia, Lymphoid
Infiltration Cellular, Plasma Cell | | + |
| | | |
| Lymph Node, Mesenteric
Degeneration, Cystic
Hemorrhage
Hyperplasia, Lymphoid
Medulla, Sinus, Dilatation | | + |
| | | |
| Spleen
Accessory Spleen
Hematopoietic Cell Proliferation
Pigmentation
Red Pulp, Atrophy | | + |
| | | |
| Thymus
Atrophy
Cyst | | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |
| | | 2 | 2 | | 2 | 3 | 3 | | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | 2 | 2 | 2 | 3 | |
| | | |

INTEGUMENTARY SYSTEM

| | | |
|--|---|--|
| Mammary Gland
Galactocoele
Inflammation
Lactation | + | M | + | |
| | | |
| | 2 | | 4 | | 3 | 2 | 3 | | | | | 2 | 4 | | 2 | 2 | | 3 | | | | 2 | 2 | | |

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FEMALE
0.175 ACRYL | DAY ON TEST | | females
(cont...) |
|---|-----------------------|
| | 0
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1 |
| Alveolus, Hyperplasia | 2 | | 4 | | 3 | | 3 | | 3 | 2 | 2 | 3 | 3 | | 2 | 1 | 1 | 1 | | 3 | | 2 | | 4 | |
| Skin | + | |
| Fibrosis | |
| Inflammation | | | | | | | | | 3 | | 2 | | | | | | | | | | 3 | | | | |
| Ulcer | |

MUSCULOSKELETAL SYSTEM

| | |
|-----------------|--|
| Bone, Femur | + | |
| Osteopetrosis | |
| Skeletal Muscle | + | |

NERVOUS SYSTEM

| | |
|---------------------------|--|
| Brain, Brain Stem | + | |
| Hemorrhage | |
| Hypothalamus, Compression | | | 2 | | 3 | | 2 | | | 2 | | 1 | 2 | | | | | | | | | | | | |
| Brain, Cerebellum | + | |
| Brain, Cerebrum | + | |
| Peripheral Nerve, Sciatic | + | |
| Axon, Degeneration | |
| Spinal Cord, Cervical | + | |
| Axon, Degeneration | | | | | | 1 | | | | | | | | 1 | 1 | | | 1 | | 1 | 1 | | 1 | 1 | |
| Spinal Cord, Lumbar | + | |

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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | | DAY ON TEST | | | | | | females
(cont...) |
|---|--|-----------------------|--|--|--|--|----------------------|
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| ANIMAL ID | | 0
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Gliosis, Focal
 Axon, Degeneration
 Nerve, Degeneration

1 1 1 1 1

Spinal Cord, Thoracic
 Axon, Degeneration

+ +

RESPIRATORY SYSTEM

Lung
 Granuloma
 Inflammation
 Alveolus, Infiltration Cellular, Histiocyte

+
 2 2 2 1 2
 1 2 1 2

Nose
 Inflammation
 Osteopetrosis

+
 2

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye
 Cataract
 Phthisis Bulbi
 Retina, Degeneration
 Sclera, Metaplasia, Osseous

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

Harderian Gland
 Infiltration Cellular, Lymphocyte

+
 2

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FEMALE
0.175 ACRYL | DAY ON TEST | 0
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8 | females
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| | ANIMAL ID | 0
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Lacrimal Gland
 Metaplasia

+
 2

URINARY SYSTEM

Kidney
 Mineralization
 Nephropathy
 Renal Tubule, Necrosis

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

Urinary Bladder
 Infiltration Cellular, Lymphocyte

+
 1

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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | | DAY ON TEST | | | | |
|---|--|-----------------------|--|--|--|
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| ANIMAL ID | | 0
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| | | * TOTALS | | | | |

ALIMENTARY SYSTEM

| | |
|----------------------------------|--------|
| Esophagus | + | 48 |
| Intestine Large, Cecum | + | 48 |
| Intestine Large, Colon | + | 48 |
| Intestine Large, Rectum | + | 48 |
| Intestine Small, Duodenum | + | 48 |
| Intestine Small, Ileum | + | 48 |
| Lymphoid Tissue, Hyperplasia | 1 3.0 |
| Intestine Small, Jejunum | + | 48 |
| Liver | + | 48 |
| Angiectasis | | | 2 | | | | | | | | | | | | | 2 | | | | | | | | 3 2.0 |
| Basophilic Focus | | | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Basophilic Focus, Multiple | | | | | X | | | | X | X | | X | X | X | X | | X | | X | | | | | 25 |
| Degeneration, Cystic | 1 2.0 |
| Eosinophilic Focus | | | X | | | | | X | | X | | | | | X | | X | | | | | | | 8 |
| Eosinophilic Focus, Multiple | 1 |
| Granuloma | | | 2 | | 2 | | | 2 | | | | | | 2 | | | | | | 2 | | | | 15 1.9 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | 4 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | X | | | | | | | | | | 2 |
| Necrosis, Coagulative | | | | | | | | | | | | | | | | | | | 3 | | | | | 2 2.0 |
| Thrombosis | 1 3.0 |
| Vacuolization Cytoplasmic | | | | | | 2 | | | | | | | | | | | | | | | | | | 7 2.7 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | | DAY ON TEST | | | * TOTALS | | | | | | |
|---|--|-------------|-----|----------|-----|--|--|--|----|-----|
| | | 0718 | 0735 | 0744 | 0619 | 0744 | 0744 | 0679 | 0744 | 0668 | 0674 | 0469 | 0639 | 0744 | 0563 | 0744 | 0684 | 0744 | 0571 | 0765 | 0627 | 0677 | | | | | | | | | | |
| | | 01032 | 01041 | 01042 | 01051 | 01052 | 01061 | 01062 | 01071 | 01072 | 01081 | 01082 | 01088 | 01088 | 01089 | 01090 | 01090 | 01099 | 01099 | 01100 | 01102 | 01102 | 01111 | 01112 | | | | | | | | |
| ANIMAL ID | | | | | | | | | | |
| Bile Duct, Hyperplasia | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | 4 | 1.5 | | | | | |
| Capsule, Fibrosis | | | | 1 | 1.0 | | | | | |
| Centrilobular, Necrosis | | 4 | | 1 | 4.0 | | | | | |
| Hepatocyte, Hyperplasia | | | | | | | | | | | | | | 3 | | | | | | | | | | | | 1 | 3.0 | | | | | |
| Left Lateral Lobe, Developmental Malformation | | X | | X | 4 | | | | | |
| Mesentery | | | + | | + | | | | | | | | | | | | | + | | | | | | | | | | | | | 10 | |
| Accessory Spleen | | | | | X | | | | | | | 1 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | 6 | 3.0 |
| Oral Mucosa | | | | | | | | | | | | | | + | | | | | | | | | | | | | 2 | | | | | |
| Pancreas | | + | + | 48 | | | | | | | | |
| Acinar Cell, Atrophy | | | 1 | | | | 2 | | | 1 | | | | | 2 | | | | | | | | | 10 | 1.5 | | | | | | | |
| Salivary Glands | | + | + | 48 | | | | | | | | | |
| Stomach, Forestomach | | + | + | 48 | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | 3 | | | 1 | 3.0 | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | 3 | | | 2 | 3.0 | | | | | | | | |
| Ulcer | | | 1 | 3.0 | | | | | | | | |
| Stomach, Glandular | | + | + | 48 | | | | | | | | | |
| Edema | | | 1 | 4.0 | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | |
| Blood Vessel | | + | + | 48 | | | | | | | | | |

* .. 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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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | DAY ON TEST | 0
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| | * TOTALS | | | | |
| Heart | | + | 48 | |
| Cardiomyopathy | | | | 2 | | 1 | 2 | 1 | 2 | | 2 | 2 | | 2 | | | 3 | 2 | 1 | 2 | | | 1 | 2 | 26 1.8 |
| ENDOCRINE SYSTEM | | | | |
| Adrenal Cortex | | + | 48 | |
| Angiectasis | | | | 2 | | | 2 | | 2 | | 1 | 2 | | | 2 | 2 | 2 | 2 | 3 | 2 | | | 2 | 29 2.2 | |
| Hyperplasia, Focal | | | | | | 1 | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| Hypertrophy, Focal | | 2 | | | | 2 | | | | | | | | | | | | 3 | | | 2 | 4 | | 5 2.6 | |
| Vacuolization Cytoplasmic | | | 3 | | | | | | | | | | | | | | | | | 3 | | 4 | | 5 3.2 | |
| Adrenal Medulla | | + | 48 | |
| Angiectasis | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 | |
| Hyperplasia, Focal | | | 1 3.0 | |
| Islets, Pancreatic | | + | 48 | |
| Parathyroid Gland | | + | 45 | |
| Pituitary Gland | | + | 47 | |
| Angiectasis | | | | | 1 | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Pars Distalis, Cyst | | | 2 | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | 4 | | | | 1 4.0 | |
| Pars Intermedia, Cyst | | | 1 | |
| Thyroid Gland | | + | 48 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | 1 | | | 1 | | | 5 1.8 | |

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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 2) Mild 4) Marked

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | DAY ON TEST | | |
|---|-----------------------|----------|
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2 | * TOTALS |

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|------------|---|---|
| Tissue NOS | + | 1 |
|------------|---|---|

GENITAL SYSTEM

| | |
|----------------------------------|--------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 47 |
| Inflammation | | | 3 | | 2 | 3 | 2 | | 2 | | | | | | 3 | 1 | | | 1 | 2 | 4 | | 22 2.4 |
| Duct, Ectasia | | | | | 3 | | 2 | | 3 | | | | | | 2 | | | | | | | | 9 2.4 |
| Ovary | + | 48 |
| Atrophy | 2 | 4 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | | 3 | 1 | 2 | 3 | 3 | 4 | 2 | 2 | 4 | | 43 2.5 |
| Cyst | | | X | | | | | | | | | | | | | | | X | | | | | 3 |
| Uterus | + | 48 |
| Angiectasis | 1 3.0 |
| Cervix, Mucocyte, Metaplasia | | | | | | | | | | | | | | | | | | | 4 | | | | 1 4.0 |
| Endometrial Glands, Hyperplasia | 1 2.0 |
| Endometrium, Hyperplasia, Cystic | | | 2 | | | | | | | | | | | | | | | 2 | | | | | 8 2.1 |
| Horn, Dilatation | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 |
| Vagina | 1 |
| Mucocyte, Metaplasia | 1 3.0 |

HEMATOPOIETIC SYSTEM

| | |
|-------------|-------|
| Bone Marrow | + | 48 |
| Atrophy | | 3 | | | | | | | | | | | 1 | | | | | 1 | | | | | 3 1.7 |
| Hyperplasia | | | | | | | | | | | | 3 | | | | | | | | | | | 1 3.0 |
| Thrombosis | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Lymph Node | + | | + | | | | + | + | | | | + | | | | | + | + | | | | | 10 |

* .. 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. 20313 - 05
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | DAY ON TEST | 0
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| | * TOTALS | | | |
| Mediastinal, Hyperplasia, Lymphoid | | 2 | | 1 | 2.0 |
| Renal, Hemorrhage | | 2 | | 1 | 2.0 |
| Lymph Node, Mandibular | + | + | 48 | |
| Degeneration, Cystic | | | | 2 | | | | | | | | | | | | | | | | | | | | 5 | 1.8 |
| Hyperplasia, Lymphoid | | | 2 | 2.0 |
| Infiltration Cellular, Plasma Cell | | | 2 | 2.0 |
| Lymph Node, Mesenteric | + | + | 48 | |
| Degeneration, Cystic | | | 1 | 1.0 |
| Hemorrhage | | | 1 | 2.0 |
| Hyperplasia, Lymphoid | | | 1 | 2.0 |
| Medulla, Sinus, Dilatation | | | 1 | 3.0 |
| Spleen | + | + | 48 | |
| Accessory Spleen | | | X | | 1 | |
| Hematopoietic Cell Proliferation | | | | | | | 4 | | | | | 2 | 2 | | | | | | | | | | | 7 | 2.7 |
| Pigmentation | | | | | | 2 | | | | 3 | | | | | 2 | | | | | | | | | 4 | 2.3 |
| Red Pulp, Atrophy | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 | 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 45 | | |
| Atrophy | | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | | 3 | 3 | 2 | 40 | 2.2 | |
| Cyst | | | | | X | | | | | | | | | | | | | X | | | | | 3 | | |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| Galactocoele | | | | | | X | | | | | | | | | | | | X | | X | X | | 5 | | |
| Inflammation | | | 3 | 1 | 3.0 | |
| Lactation | 1 | 3 | | 3 | 2 | | 2 | | | 1 | 1 | | 3 | 2 | | 2 | 1 | 2 | 2 | 4 | 2 | | 27 | 2.3 | |

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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | DAY ON TEST | | | | |
|---|-----------------------|---|----|-----|
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| * TOTALS | | | | |
| Alveolus, Hyperplasia | 4 | 1 | 2 | 3 | 3 | 3 | 3 | | | 1 | 1 | | 3 | 2 | | 1 | 1 | 3 | | 4 | 2 | | 2 | | 33 | 2.4 |
| Skin | + | + | 48 | |
| Fibrosis | | | 1 | 3.0 |
| Inflammation | | | 3 | 2.3 |
| Ulcer | | | 1 | 2.0 |

MUSCULOSKELETAL SYSTEM

| | |
|-----------------|-------|
| Bone, Femur | + | 48 |
| Osteopetrosis | 3 | | | | | | | | | | | | | | | | | | | 3 | | | | 2 3.0 |
| Skeletal Muscle | + | 48 |

NERVOUS SYSTEM

| | |
|---------------------------|--------|
| Brain, Brain Stem | + | 48 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 3 | | | | | 1 3.0 |
| Hypothalamus, Compression | | | | | 2 | | | | | | | | | | | | 2 | | | 3 | 2 | | | 10 2.1 |
| Brain, Cerebellum | + | 48 |
| Brain, Cerebrum | + | 48 |
| Peripheral Nerve, Sciatic | + | 48 |
| Axon, Degeneration | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 |
| Spinal Cord, Cervical | + | 48 |
| Axon, Degeneration | | 1 | | | 1 | 1 | | | | | | | | 1 | | 1 | | | | | | 1 | | 15 1.0 |
| Spinal Cord, Lumbar | + | 48 |

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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | | DAY ON TEST | | | | | |
|---|--|-----------------------|------------------|-----|----------|--|--|
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4 | 0
6
4
9 | 0
7
4
4 | 0
6
5
8 | 0
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7
6 | 0
7
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9 | 0
4
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3 | 0
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4
9 | 0
7
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4 | 0
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3 | 0
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4 | 0
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4 | 0
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4 | 0
7
4
4 | 0
5
7
1 | 0
7
1
6 | 0
6
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5 | 0
6
7
7 | | | | |
| | | 0
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0
3
2 | 0
1
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4
1 | 0
1
1
4
2 | 0
1
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1 | 0
1
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2 | 0
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1 | 0
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2 | 0
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9
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2 | 0
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1
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4
1
2 | 0
2
4
2
1 | 0
2
4
2
2 | | | | | |
| | | ANIMAL ID | | | | | |
| | | | | | * TOTALS | | |
| Gliosis, Focal | | | | | 1 1.0 | | |
| Axon, Degeneration | | | | | 4 1.0 | | |
| Nerve, Degeneration | | | | | 17 1.1 | | |
| Spinal Cord, Thoracic | | + | 48 | | | | |
| Axon, Degeneration | | 1 | | | | | | 1 | | 1 | | 1 | | 1 | 1 | 1 | 1 | | | | | | | 20 | 1.0 | | | |
| RESPIRATORY SYSTEM | | | | | | | |
| Lung | | + | 48 | | | | |
| Granuloma | | | | | 9 1.8 | | |
| Inflammation | | | | | 4 2.0 | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | 10 1.5 | | |
| Nose | | + | 48 | | | | | |
| Inflammation | | | | | 7 1.6 | | |
| Osteopetrosis | | | | | 1 3.0 | | |
| Trachea | | + | 48 | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 47 | | | | | |
| Cataract | | | | | 3 | | |
| Phthisis Bulbi | | | | | 1 | | |
| Retina, Degeneration | | | | | 16 2.2 | | |
| Sclera, Metaplasia, Osseous | | | | | 1 2.0 | | |
| Harderian Gland | | + | 48 | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | 17 1.4 | | |

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

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

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.175 ACRYL | DAY ON TEST | 0
7
1
8 | 0
7
3
5 | 0
7
4
4 | 0
6
1
9 | 0
7
4
4 | 0
7
4
4 | 0
6
4
9 | 0
7
4
4 | 0
6
5
8 | 0
6
7
6 | 0
7
4
4 | 0
4
0
9 | 0
6
3
9 | 0
7
4
4 | 0
5
6
3 | 0
7
4
4 | 0
7
6
4 | 0
7
4
4 | 0
5
7
1 | 0
7
1
6 | 0
6
2
5 | 0
6
7
7 | | |
|---|--|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|
| | ANIMAL ID | 0
1
0
3
2 | 0
1
1
0
4
1 | 0
1
1
0
4
2 | 0
1
1
0
5
1 | 0
1
1
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5
2 | 0
1
8
6
1 | 0
1
8
6
2 | 0
1
8
7
1 | 0
1
8
7
2 | 0
1
8
8
1 | 0
1
8
9
2 | 0
1
8
9
2 | 0
1
9
0
1 | 0
1
9
0
2 | 0
2
3
9
2 | 0
2
3
9
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2
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2 | 0
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0
2 | 0
2
4
1
1 | 0
2
4
1
2 | 0
2
4
2
1 | 0
2
4
2
2 | | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Lacrimal Gland
Metaplasia | 1
1 2.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney
Mineralization
Nephropathy
Renal Tubule, Necrosis | +
2 2 1 1 1 2 2 1 1 2 2 3 2 2 2 2 1 3 2 4 2 2 2
32 1 3.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder
Infiltration Cellular, Lymphocyte | +
48 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
 2) Mild 4) Marked

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| DAY ON TEST | | 0 | | |
|--------------------------------------|--|----------------------|
| | | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | | 7 |
| FISCHER 344 RATS-NCTR RATS
FEMALE | | 1 | 4 | 1 | 4 | 2 | 4 | 4 | 4 | 1 | 4 | 4 | 8 | 4 | 4 | 6 | 2 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 3 | 4 | 2 | |
| | | 1 | 4 | 8 | 4 | 6 | 4 | 4 | 4 | 3 | 4 | 4 | 6 | 3 | 3 | 1 | 4 | 4 | 4 | 7 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | |
| 0.0875 ACRYL | | 0 | females
(cont...) |
| | | 0 | |
| ANIMAL ID | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2 |
| | | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | |

ALIMENTARY SYSTEM

| | |
|--|---|
| Esophagus | + |
| Intestine Large, Cecum
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Diverticulum | + | X | + | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + |
| Liver | + |
| Angiectasis | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Basophilic Focus, Multiple | | X | | X | | X | X | | | | X | X | X | X | | | X | | X | | X | | X | X |
| Eosinophilic Focus | | | | | | | | X | | | X | | | | | | | | | | | | | |
| Eosinophilic Focus, Multiple |
| Granuloma | | | | 1 | 3 | | | 2 | | | | | | 2 | | | | | | 1 | 2 | | 2 | 2 |
| Hepatodiaphragmatic Nodule | | | X | | | | X | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Inflammation | |
| Regeneration | |
| Vacuolization Cytoplasmic | 2 | | | | 3 | | | | | 1 | | | | | | | | | | | | | | |

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

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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | DAY ON TEST | 0
7
1
1 | 0
7
4
4 | 0
7
1
8 | 0
7
4
4 | 0
5
2
6 | 0
7
4
4 | 0
7
4
4 | 0
6
1
3 | 0
7
4
4 | 0
7
4
4 | 0
5
8
6 | 0
7
4
3 | 0
7
4
3 | 0
6
1 | 0
7
2
4 | 0
7
4
4 | 0
7
4
4 | 0
6
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7 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
3
3 | 0
7
4
4 | 0
7
2
6 | females
(cont...) | | |
|--|------------------------|------------------|----------------------|---|--|
| | ANIMAL ID | 0
0
4
6
1 | 0
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4
6
2 | 0
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7
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7
2 | 0
0
4
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2 | 0
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4
9
1 | 0
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5
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1 | 0
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2 | 0
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6
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1 | 0
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2 | 0
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7
1 | 0
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7
2 | 0
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8
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6
8
2 | 0
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6
9
1 | 0
0
7
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2 | 0
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7
0
1 | 0
1
2
6
2 | 0
1
2
6
1 | 0
1
2
7
1 | 0
1
2
7
2 | 0
1
2
8
1 | | | | |
| | Bile Duct, Hyperplasia | 1 | | | | 2 | | | | 1 | | | | | | | | 2 | | | | 3 | | 2 | | | | |
| Capsule, Fibrosis | | | | | |
| Centrilobular, Necrosis | | | | | |
| Left Lateral Lobe, Developmental Malformation | X | | | | | | | | X | | | | X | | | | | | | | X | | X | | X | | | |
| Median Lobe, Developmental Malformation | | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Right Lateral Lobe, Developmental Malformation | | X | | | |
| Mesentery | | | | | | | | | + | | | | + | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | 3 | | | | 3 | | | | | | | | 2 | | | | | | | |
| Oral Mucosa | | | | | + | | | | |
| Pancreas | + | + | | | |
| Polyarteritis | | | | | |
| Acinar Cell, Atrophy | 2 | | | | 2 | | | | 2 | | | | 2 | | | | 1 | | | | 2 | | | | 2 | | 2 | |
| Salivary Glands | + | + | | | |
| Stomach, Forestomach | + | + | | | |
| Edema | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Hyperplasia | 2 | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Ulcer | | | | | |
| Stomach, Glandular | + | + | | | |

CARDIOVASCULAR SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 20313 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Acrylamide
CAS Number: 79-06-1

Date Report Requested: 01/15/2010
Time Report Requested: 14:38:46
First Dose M/F: 05/23/05 / 05/23/05
Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | DAY ON TEST | females
(cont...) |
|--|----------------|----------------------|
| | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | |
| ANIMAL ID | 1 | 4 | 1 | 4 | 2 | 4 | 4 | 4 | 1 | 4 | 4 | 8 | 4 | 4 | 6 | 2 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 3 | 1 |
| | 1 | 4 | 8 | 4 | 6 | 4 | 4 | 4 | 3 | 4 | 4 | 6 | 3 | 3 | 1 | 4 | 4 | 4 | 7 | 4 | 4 | 4 | 3 | 4 | |
| | 0 | 0 | |
| | 0 | 0 | 1 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 2 | 2 | 2 | 2 | 1 | |
| | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 6 | 6 | 6 | 7 | 8 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | Cardiomyopathy | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |

ENDOCRINE SYSTEM

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

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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | | DAY ON TEST | | | females
(cont...) |
|--|--|-----------------------|--|----------------------|
| | | 0
7
1
1 | 0
7
4
4 | 0
7
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8 | 0
7
4
4 | 0
5
2
6 | 0
7
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4 | 0
7
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4 | 0
7
4
4 | 0
6
1
3 | 0
7
4
4 | 0
7
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4 | 0
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8
6 | 0
7
4
3 | 0
7
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3 | 0
6
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1 | 0
7
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4 | 0
7
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4 | 0
6
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7 | 0
7
4
4 | 0
7
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4 | 0
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4
4 | 0
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3
3 | 0
7
4
4 | 0
7
2
6 | | |
| ANIMAL ID | | 0
0
4
6
1 | 0
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2 | 0
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4
7
1 | 0
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4
7
2 | 0
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4
8
1 | 0
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4
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2 | 0
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1 | 0
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9
2 | 0
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2 | 0
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6
1 | 0
1
2
6
2 | 0
1
2
7
1 | 0
1
2
7
2 | 0
1
2
8
1 | | |

NONE

GENITAL SYSTEM

| |
|----------------------------------|
| Clitoral Gland | + | |
| Inflammation | 3 | 1 | | 1 | 3 | | 2 | 2 | | 1 | | 2 | | | 3 | | 3 | | | | | | 3 | | |
| Duct, Ectasia | 3 | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Ovary | + |
| Atrophy | 2 | 2 | 2 | 1 | 4 | 2 | 2 | 4 | 2 | 2 | 1 | 1 | 3 | 2 | 3 | 3 | 2 | 2 | | | 2 | 2 | 2 | 1 | |
| Cyst | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Uterus | + |
| Inflammation | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Bilateral, Horn, Dilatation | 4 | |
| Cervix, Muscularis, Hypertrophy | |
| Endometrial Glands, Hyperplasia | |
| Endometrium, Hyperplasia, Cystic | | 2 | | 2 | | | | 2 | 1 | | | | | | | | | | | | | | | | |
| Horn, Dilatation | 2 | | | | | |
| Vagina | | | | | | | | | + | | | | | | + | | | | | | | | | | |
| Inflammation |
| Mucocyte, Metaplasia | | | | | | | | | 3 | | | | | | 3 | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| |
|-------------|
| Bone Marrow | + |
| Atrophy | | | | 4 | | | | | | | | | | 2 | | | | | | | | | | | |
| Hyperplasia | 2 | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20313 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | DAY ON TEST | |
|---|-----------------------|
| | 0
7
1
1 | 0
7
4
4 | 0
7
1
8 | 0
7
4
4 | 0
5
2
6 | 0
7
4
4 | 0
7
4
4 | 0
7
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4 | 0
6
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3 | 0
7
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4 | 0
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4 | 0
5
8
6 | 0
7
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3 | 0
7
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3 | 0
6
6
1 | 0
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4 | 0
7
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4 | 0
6
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7 | 0
7
4
4 | 0
7
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4 | 0
7
4
4 | 0
7
3
3 | 0
7
4
4 | 0
7
2
6 |
| ANIMAL ID | 0
0
4
6
1 | 0
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4
6
2 | 0
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4
7
1 | 0
0
4
7
2 | 0
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4
8
1 | 0
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4
8
2 | 0
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4
9
1 | 0
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2 | 0
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2 | 0
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2 | 0
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2 | 0
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6
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1 | 0
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6
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2 | 0
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6
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1 | 0
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7
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2 | 0
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7
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1 | 0
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7
0
2 | 0
1
2
6
1 | 0
1
2
6
2 | 0
1
2
7
1 | 0
1
2
7
2 |
| Lymph Node
Lumbar, Degeneration, Cystic
Mediastinal, Medulla, Sinus, Dilatation
Renal, Hemorrhage
Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | + | | | | + | | | + | | + |
| Lymph Node, Mandibular
Degeneration, Cystic
Infiltration Cellular, Plasma Cell | + | + | + | + | 2 | + | + | 3 | 2 | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric
Hemorrhage
Hyperplasia, Lymphoid
Infiltration Cellular, Histiocyte
Infiltration Cellular, Mast Cell
Lymphocyte, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | 2 | + | + | + | + |
| Spleen
Hematopoietic Cell Proliferation
Pigmentation
Red Pulp, Atrophy | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus
Atrophy
Cyst
Infiltration Cellular, Polymorphonuclear | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | DAY ON TEST | | | females
(cont...) |
|--|-----------------------|--|----------------------|
| | 0
7
1
1 | 0
7
4
4 | 0
7
1
8 | 0
7
4
4 | 0
5
2
6 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
6
1
3 | 0
7
4
4 | 0
7
4
4 | 0
5
8
6 | 0
7
4
3 | 0
7
4
3 | 0
6
6
1 | 0
7
2
4 | 0
7
4
4 | 0
7
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4 | 0
6
1
7 | 0
7
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4 | 0
7
4
4 | 0
7
4
4 | 0
7
3
3 | 0
7
4
3 | 0
7
4
4 | 0
7
2
6 | | | |
| | 0
0
4
6
1 | 0
0
4
4
2 | 0
0
4
4
1 | 0
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4
4
2 | 0
0
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1 | 0
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2 | 0
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4
4
1 | 0
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4
4
2 | 0
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4
5
1 | 0
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4
5
2 | 0
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6
6
1 | 0
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6
2 | 0
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6
7
1 | 0
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6
7
2 | 0
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6
8
1 | 0
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6
8
2 | 0
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6
9
1 | 0
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6
9
2 | 0
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7
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1 | 0
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2 | 0
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1 | 0
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2 | 0
1
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2
6 | 0
1
1
2
7 | 0
1
1
2
7 | 0
1
1
2
7 | 0
1
1
2
8 | | |
| Galactocoele | X | | | | | | X | | | | | | | | X | | | | | | | X | | | | | X | | |
| Lactation | | | | 4 | 1 | 3 | 3 | 1 | 2 | 2 | 2 | | | | 3 | | 2 | | | | 2 | | | 3 | 2 | | | | |
| Alveolus, Hyperplasia | | | | 4 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | | 2 | 2 | 3 | | 1 | 2 | | 3 | 2 | | | 3 | 2 | 4 | | | |
| Skin | + | | |
| Inflammation | | | | | | | | 2 | | | | | | | 3 | | | | | | | | | | | | | | |
| Epidermis, Necrosis | | | | | | | | 2 | | |

MUSCULOSKELETAL SYSTEM

| | |
|-----------------|--|
| Bone, Femur | + | |
| Osteopetrosis | | | | 4 | |
| Skeletal Muscle | + | |

NERVOUS SYSTEM

| | |
|---------------------------|--|
| Brain, Brain Stem | + | |
| Hypothalamus, Compression | | | | | 3 | | 3 | 3 | | | | | | | 3 | 2 | | | | | | 2 | | | | | 2 | |
| Brain, Cerebellum | + | |
| Brain, Cerebrum | + | |
| Gliosis, Focal | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Peripheral Nerve, Sciatic | + | |
| Axon, Degeneration | | | | | | | | | | | | | | | 1 | | | | 1 | | | | | | | | | |
| Spinal Cord, Cervical | + | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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TDMS No. 20313 - 05
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 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
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Date Report Requested: 01/15/2010
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| DAY ON TEST | | 0711 | 0744 | 0778 | 0744 | 0526 | 0744 | 0744 | 0744 | 0613 | 0744 | 0744 | 0586 | 0743 | 0743 | 0661 | 0724 | 0744 | 0617 | 0744 | 0744 | 0744 | 0733 | 0744 | 0726 | females
(cont...) | | |
|--|--|----------------------|-------|-------|
| | | 0711 | 0744 | 0778 | 0744 | 0526 | 0744 | 0744 | 0744 | 0613 | 0744 | 0744 | 0586 | 0743 | 0743 | 0661 | 0724 | 0744 | 0617 | 0744 | 0744 | 0744 | 0733 | 0744 | 0726 | | | |
| ANIMAL ID | | 00461 | 00462 | 00471 | 00472 | 00481 | 00482 | 00491 | 00492 | 00501 | 00502 | 00601 | 00602 | 00661 | 00662 | 00671 | 00672 | 00681 | 00682 | 00691 | 00692 | 00701 | 00702 | 01261 | 01262 | 01271 | 01272 | 01281 |
| | | 00461 | 00462 | 00471 | 00472 | 00481 | 00482 | 00491 | 00492 | 00501 | 00502 | 00601 | 00602 | 00661 | 00662 | 00671 | 00672 | 00681 | 00682 | 00691 | 00692 | 00701 | 00702 | 01261 | 01262 | 01271 | 01272 | 01281 |
| FISCHER 344 RATS-NCTR RATS FEMALE 0.0875 ACRYL | | | | |

| | | |
|-----------------------|--|--|
| Axon, Degeneration | 1 | 1 | | | | | 1 | 1 | 1 | 1 | | 1 | | | 1 | | | | | | 1 | | | | | | |
| Spinal Cord, Lumbar | + | | |
| Axon, Degeneration | | |
| Nerve, Degeneration | 1 | | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | | | 1 | | | | | | | |
| Spinal Cord, Thoracic | + | | |
| Axon, Degeneration | | | | | 1 | | | | 1 | | 1 | | | 1 | | | 1 | 1 | | 1 | 1 | | 1 | | 1 | | |
| Nerve, Degeneration | 1 | | |

RESPIRATORY SYSTEM

| | | |
|---|--|--|
| Lung | + | | |
| Granuloma | | 2 | | | | | | | | | | | | | | | | 1 | | 2 | | | | | | | |
| Inflammation | 2 | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | 2 | | | | | | | | | | | | | 1 | | | | 1 | | | | |
| Nose | + | | |
| Inflammation | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | |
| Osteopetrosis | | | | | 3 | | |
| Trachea | + | | |

SPECIAL SENSES SYSTEM

| | | |
|----------------------|--|--|
| Eye | + | | |
| Cataract | | | X | | |
| Retina, Degeneration | 1 | 1 | 3 | 1 | 2 | 1 | | | | | | | | | | | | 1 | | 1 | | | | 1 | | | |
| Harderian Gland | + | | |
| Atrophy | | | | | | 2 | | |

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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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 2) Mild 4) Marked

TDMS No. 20313 - 05
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 Species/Strain: RATS/F 344/NCTR

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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | DAY ON TEST | 0
7
1
1 | 0
7
4
4 | 0
7
1
8 | 0
7
4
4 | 0
5
2
6 | 0
7
4
4 | 0
7
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4 | 0
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4 | 0
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3 | 0
7
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4 | 0
7
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4 | 0
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6 | 0
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3 | 0
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4 | 0
7
4
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7
4
3 | 0
7
4
3 | 0
7
4
4 | 0
7
2
6 | females
(cont...) | |
|--|-------------|------------------|----------------------|--|
| | ANIMAL ID | 0
0
4
6
1 | 0
0
4
6
2 | 0
0
4
7
1 | 0
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4
7
2 | 0
0
4
8
1 | 0
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6
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2 | 0
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2
7
1 | 0
1
2
7
2 | 0
1
2
7
1 | 0
1
2
8
1 | | | |
| | | | | |
| Infiltration Cellular, Lymphocyte
Inflammation | | 1 | | | 1 | | 1 | | | | | 1 | | | | | | | 1 | | | 1 | | | 1 | 1 | | |
| Lacrimal Gland
Metaplasia | | | | |
| Zymbal's Gland | | | | |
| URINARY SYSTEM | | | | |
| Kidney | | + | + | |
| Hydronephrosis | | 2 | | | |
| Infarct | | | | |
| Infiltration Cellular, Lymphocyte | | | 2 | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Mineralization | | | 1 | | | | 2 | | | | | 2 | | 1 | | | | 2 | 2 | | | | 2 | 2 | | 1 | | |
| Nephropathy | | | | 1 | 1 | 3 | 2 | 3 | 4 | | 3 | | | 2 | 1 | 3 | 1 | 2 | 2 | | | 3 | 3 | 1 | 2 | 1 | | |
| Urinary Bladder | | + | + | |
| Dilatation | | | | 4 | | | |

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 X .. Lesion present
 I .. Insufficient tissue

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | DAY ON TEST | | |
|--|-----------------------|--|
| | 0
6
0
6 | 0
6
8
3 | 0
7
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4 | 0
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4 | 0
6
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5 | 0
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5 | 0
7
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4 | 0
7
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4 | 0
5
2
0 | 0
5
8
5 | 0
7
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1 | 0
7
4
4 | 0
7
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4 | 0
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4 | 0
5
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9 | 0
5
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3 | 0
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| ANIMAL ID | 0
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1
3
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1 | 0
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2 | 0
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7
1 | 0
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7
2 | 0
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8
1 | 0
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2 | 0
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9
1 | 0
1
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9
2 | 0
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6
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1 | 0
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6
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2 | 0
2
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2
1 | 0
2
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3 | 0
2
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3 | 0
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2
4 | 0
2
2
2
4 | 0
2
2
2
5 | 0
2
2
5
1 | 0
2
2
5
2 | |
| | * TOTALS | | |

ALIMENTARY SYSTEM

| | |
|--|-------------|
| Esophagus | + | 48 |
| Intestine Large, Cecum
Lymphoid Tissue, Hyperplasia | + | 48
1 2.0 |
| Intestine Large, Colon
Diverticulum | + | 48
1 |
| Intestine Large, Rectum | + | 48 |
| Intestine Small, Duodenum | + | 48 |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | + | 48
2 2.5 |
| Intestine Small, Jejunum | + | 48 |
| Liver | + | 48 |
| Angiectasis | | | | | | | | | | | | | | | | 2 | | | | | | | | 2 2.0 |
| Basophilic Focus, Multiple | X | | X | X | X | | X | | X | | | | | X | X | X | | | | X | | X | | 25 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | X | | | | | 3 |
| Eosinophilic Focus, Multiple | | | X | | X | | | | | | | | | | | | | | | | | | | 2 |
| Granuloma | 2 | 3 | 2 | | | | | | | 2 | | | | 1 | | 2 | 1 | | | | | | | 15 1.9 |
| Hepatodiaphragmatic Nodule | | | | X | | | | | | | | | | X | | | | | | | | | | 4 |
| Infiltration Cellular, Lymphocyte | 1 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Regeneration | | | | | | | 4 | | | | | | | | | | | | | | 4 | | | 2 4.0 |
| Vacuolization Cytoplasmic | | | | | 2 | | | | | | | | | 2 | | | 2 | | | | | | | 6 2.0 |

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

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | DAY ON TEST | |
|--|-----------------------|-----------------|
| | 0
6
0
6 | 0
6
8
3 | 0
7
4
4 | 0
7
4
4 | 0
7
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7
4
4 | 0
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5 | 0
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5 | 0
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4 | 0
7
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4 | 0
5
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5
8
5 | 0
7
3
1 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
5
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9 | 0
5
3
3 | 0
7
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4 | 0
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4 | 0
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| ANIMAL ID | 0
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4
1 | 0
2
2
4
2 | 0
2
2
5
1 | 0
2
2
5
2 | |
| | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | 2 | 2 | | | | 1 | | | |
| Capsule, Fibrosis | |
| Centrilobular, Necrosis | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Left Lateral Lobe, Developmental Malformation | | X | | X | | | X | | | | | | | | | | | | X | | | | | |
| Median Lobe, Developmental Malformation | |
| Right Lateral Lobe, Developmental Malformation | |
| | | * TOTALS |
| | | |
| Mesentery | + | + | | | | + | + | | | | | + | | | | + | | | | | | | | 9 |
| Fat, Necrosis | 3 | 3 | | | | 2 | 3 | | | | | 3 | | | | 2 | | | | | | | | 9 2.7 |
| Oral Mucosa | | | + | | 2 |
| Pancreas | + | 48 |
| Polyarteritis | | | | | | | | | | | | 4 | | | | | | | | | | | | 1 4.0 |
| Acinar Cell, Atrophy | | | | | 2 | | 1 | | | | | | | 2 | 2 | | | | 1 | 1 | | | | 16 1.7 |
| Salivary Glands | + | 48 |
| Stomach, Forestomach | + | 48 |
| Edema | | | | | | | 4 | | | | | | | | | | | | | | | | | 2 3.0 |
| Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | 3 2.0 |
| Ulcer | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 |
| Stomach, Glandular | + | 48 |

CARDIOVASCULAR SYSTEM

| | |
|--------------|-----------|
| Blood Vessel | + | 48 |
| Heart | + | 48 |

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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | DAY ON TEST | | | |
|--|-----------------------|----------|--------|
| | 0
6
0
6 | 0
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7
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1 | 0
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4 | 0
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9 | 0
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| | ANIMAL ID | | |
| | 0
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8
2 | 0
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1 | 0
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9
2 | 0
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3
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1 | 0
1
3
0
2 | 0
1
5
6
1 | 0
1
5
6
2 | 0
1
5
7
1 | 0
1
5
7
2 | 0
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8
1 | 0
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2 | 0
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3 | 0
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2
4
4 | 0
2
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4
4 | 0
2
2
5
5 | 0
2
2
5
2 | * TOTALS | |
| Cardiomyopathy | 2 | 1 | 2 | 2 | 2 | 1 | | 2 | 2 | 2 | | 1 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | | | | 42 1.8 |

ENDOCRINE SYSTEM

| | | |
|----------------------------|----|--------|
| Adrenal Cortex | + | 48 | |
| Angiectasis | 2 | 1 | 2 | 3 | | | | 2 | 2 | 2 | | | 3 | 3 | | 2 | 3 | | | | 2 | 2 | | | 26 2.2 |
| Atrophy | | | | | | | | | | | | 4 | | | | | | | | | | | | | 1 4.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 2.0 |
| Hypertrophy, Focal | | | 2 | | | | 2 | | | | | | 2 | | | | | | | | | | | | 5 2.4 |
| Infarct | | 1 2.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | 2 | | | | | | | | | | | 1 | | | 5 2.6 |
| Adrenal Medulla | + | 48 | |
| Hypertrophy, Focal | | 1 2.0 |
| Islets, Pancreatic | + | 48 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 47 | |
| Pituitary Gland | + | 48 | |
| Pars Distalis, Cyst | | 2 |
| Pars Distalis, Hyperplasia | 4 | 1 | | | | | 4 | | 3 | | | | | | | | | 2 | | | | | | | 8 2.8 |
| Pars Intermedia, Cyst | | X | | 1 |
| Thyroid Gland | + | 48 | |
| C-cell, Hyperplasia | | | | 2 | | 4 1.5 |
| Follicle, Cyst | | 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

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | | DAY ON TEST | | | |
|--|--|-----------------------|--|--|
| | | 0
6
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6 | 0
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3 | 0
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4 | 0
7
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9 | 0
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3 | 0
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0 | | |
| ANIMAL ID | | 0
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8
2 | 0
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2 | 0
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4
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5
1 | 0
2
2
5
2 | | |
| | | * TOTALS | | | |

NONE

GENITAL SYSTEM

| | |
|----------------------------------|--------|
| Clitoral Gland | + | 48 |
| Inflammation | | | 2 | 2 | 2 | | | | 2 | 3 | 2 | | 1 | | | 2 | 3 | 3 | 3 | 2 | | | | 24 2.2 |
| Duct, Ectasia | | | 2 | 3 | 3 | | | 3 | | 1 | | | 2 | | | | | | | 3 | 3 | | | 10 2.5 |
| Ovary | + | 48 |
| Atrophy | | | 2 | 2 | 3 | 4 | 4 | 2 | 3 | 2 | 2 | 4 | | 2 | 2 | 3 | 2 | | 2 | 2 | 4 | | 2 | 41 2.3 |
| Cyst | X | | | | X | | | | | | | | | | | | | X | | X | | | | 5 |
| Uterus | + | 48 |
| Inflammation | 1 2.0 |
| Bilateral, Horn, Dilatation | 1 4.0 |
| Cervix, Muscularis, Hypertrophy | | | | | | | | | | | | | | | | 3 | | | | | | | | 1 3.0 |
| Endometrial Glands, Hyperplasia | | | | | | 2 | 3 | | | | | | | | | | | | | | | | | 2 2.5 |
| Endometrium, Hyperplasia, Cystic | 2 | 2 | | | 2 | | | | 2 | | | | | 2 | 1 | | | | | | | | | 10 1.8 |
| Horn, Dilatation | 1 2.0 |
| Vagina | | | | | | | | | | | | + | | | | | | | | | | + | | 4 |
| Inflammation | 2 | | 1 2.0 |
| Mucocyte, Metaplasia | | | | | | | | | | | | 4 | | | | | | | | | | 3 | | 4 3.3 |

HEMATOPOIETIC SYSTEM

| | |
|-------------|-------|
| Bone Marrow | + | 48 |
| Atrophy | | | | | | | | | | | | | 2 | | | | | 3 | | | | | | 4 2.8 |
| Hyperplasia | | 1 2.0 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

TDMS No. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | DAY ON TEST | 0
6
0
6 | 0
6
8
3 | 0
7
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7
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9 | 0
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|--|-------------|-----------------------|--------|
| | ANIMAL ID | 0
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1 | 0
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2
5
2 | |
| | * TOTALS | | |
| Lymph Node | | | | | | + | + | | + | | | | + | | | | + | | | | | | | | 9 |
| Lumbar, Degeneration, Cystic | | | 2 2.5 |
| Mediastinal, Medulla, Sinus, Dilatation | | | 1 3.0 |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 2.0 |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 2.0 |
| Lymph Node, Mandibular | | + | 48 |
| Degeneration, Cystic | | 2 | | 1 | | | | | 2 | | | | | | | | 2 | | | | | | | | 6 1.8 |
| Infiltration Cellular, Plasma Cell | | | | 2 | | | | | | | 2 | 2 | | | | | 3 | | 3 | | | | | | 7 2.4 |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Hemorrhage | | | 1 3.0 |
| Hyperplasia, Lymphoid | | | 1 2.0 |
| Infiltration Cellular, Histiocyte | | | 1 3.0 |
| Infiltration Cellular, Mast Cell | | | 1 2.0 |
| Lymphocyte, Atrophy | | | 2 | | 2 3.5 |
| Spleen | | + | 48 |
| Hematopoietic Cell Proliferation | | | 2 | | | | | 2 | | | | | | | | | 2 | | 2 | | | | | | 10 2.4 |
| Pigmentation | | | | 2 | | | | | | | | | | 2 | 2 | | | | 2 | | | | | | 6 2.2 |
| Red Pulp, Atrophy | | | 1 2.0 |
| Thymus | | + | 47 |
| Atrophy | | 3 | | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 44 2.2 |
| Cyst | | | | | | | | | | | | | | | X | | | | | | | | | | 1 |
| Infiltration Cellular, Polymorphonuclear | | | 4 | | 1 4.0 |

INTEGUMENTARY SYSTEM

| | |
|---------------|----|
| Mammary Gland | + | 48 |
|---------------|----|

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | | DAY ON TEST | | | | | |
|--|--|-----------------------|--|----------|--|--|
| | | 0
6
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2
2
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2 | | | | |
| ANIMAL ID | | | | * TOTALS | | |
| Galactocoele | | | | 9 | | |
| Lactation | | | | 30 2.3 | | |
| Alveolus, Hyperplasia | | | | 37 2.2 | | |
| Skin | | | | 48 | | |
| Inflammation | | | | 2 2.5 | | |
| Epidermis, Necrosis | | | | 2 2.0 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| Bone, Femur | | | | 48 | | |
| Osteopetrosis | | | | 2 3.5 | | |
| Skeletal Muscle | | | | 48 | | |
| NERVOUS SYSTEM | | | | | | |
| Brain, Brain Stem | | | | 48 | | |
| Hypothalamus, Compression | | | | 13 2.5 | | |
| Brain, Cerebellum | | | | 48 | | |
| Brain, Cerebrum | | | | 48 | | |
| Gliosis, Focal | | | | 1 2.0 | | |
| Ventricle, Dilatation | | | | 2 2.0 | | |
| Peripheral Nerve, Sciatic | | | | 48 | | |
| Axon, Degeneration | | | | 3 1.0 | | |
| Spinal Cord, Cervical | | | | 48 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion 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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| FISCHER 344 RATS-NCTR RATS
FEMALE
0.0875 ACRYL | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | |
|--|--|-----------------------|----------|---|-----------------------|------------------|-----|-----|-----|--|-----|--|
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2 | | | | | | | |
| ANIMAL ID | | | | | | | | | | | | |
| Axon, Degeneration | | 1 | | | | 1 | | 1 | | 1 | | | | 1 | | | | 1 | | | | 1 | | 1 | | 18 | | 1.0 | | | |
| Spinal Cord, Lumbar | | + | + | + | 48 | 2 | 1.0 | | | | | |
| Axon, Degeneration | | | | | | 1 | | 1 | | 1 | | 1 | | | | 1 | | | | 1 | | | | 2 | | 21 | | 1.1 | | | |
| Nerve, Degeneration | | + | + | + | 48 | 22 | 1.0 | | | | | |
| Spinal Cord, Thoracic | | 1 | | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | | | | | 1 | | | 1 | 1 | | 1 | 1 | 1.0 | | | | | | |
| Axon, Degeneration | | | | | | 1 | | 1 | | 1 | | 1 | | | | 1 | | | | 1 | | | | 2 | | 1 | | 1.0 | | | |
| Nerve, Degeneration | | | | | | 1 | | 1 | | 1 | | 1 | | | | 1 | | | | 1 | | | | 2 | | 1 | | 1.0 | | | |
| | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | |
| Lung | | + | + | + | 48 | 5 | 1.8 | | | | | |
| Granuloma | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 | | 2 | | 2.0 | | | |
| Inflammation | | | | | | 1 | | | | | | 3 | | | | 2 | | | | | | | | 2 | | 7 | | 1.7 | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | | | | | | | | | 3 | | | | 2 | | | | | | | | 2 | | 7 | | 1.7 | | | | |
| Nose | | + | + | + | 48 | 6 | 1.8 | | | | | |
| Inflammation | | 2 | | | | | | | | | | | | 2 | | | | 2 | | | | | | | | 1 | | 2 | | 3.0 | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Trachea | | + | + | + | 48 | | | | | | | |
| | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | |
| Eye | | + | + | + | 48 | 2 | 1.7 | | | | | |
| Cataract | | X | | | | | | | | | | |
| Retina, Degeneration | | 4 | 2 | | | | 1 | | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | 16 | | 1.7 | | | |
| Harderian Gland | | + | + | + | 48 | 1 | 2.0 | | | | | |
| Atrophy | | | | | | | | | | | | |
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | | | | | | | | | | | | |
| + .. Tissue examined microscopically | | | | | | | | | | | | |
| X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

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

ALIMENTARY SYSTEM

| | |
|---|---|
| Esophagus | + |
| Intestine Large, Cecum
Lymphoid Tissue, Hyperplasia
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum
Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | 3 | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Liver | + |
| Angiectasis | |
| Basophilic Focus | |
| Basophilic Focus, Multiple | | | | X | X | X | X | X | | | X | | | X | X | | | | X | X | | X | X | X | X | X |
| Eosinophilic Focus | | | | | | X | X | | | | | | X | | | | | | | | | | | | | |
| Eosinophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Granuloma | | | | | | | | | | | 1 | | | | | | 2 | | 1 | 2 | | 3 | | 1 | 2 | |
| Hematopoietic Cell Proliferation | |
| Hepatodiaphragmatic Nodule | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Regeneration | | 4 |

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

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Species/Strain: RATS/F 344/NCTR

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Acrylamide
CAS Number: 79-06-1

Date Report Requested: 01/15/2010
Time Report Requested: 14:38:46
First Dose M/F: 05/23/05 / 05/23/05
Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | | females
(cont...) |
|--|-------------|--|----------------------|
| | 0 | 0 | | |
| | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 4 | 9 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 6 | 4 | 4 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| ANIMAL ID | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 7 | | | |
| | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 1 | | |
| 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | 2 | 1 | | | | | | 1 | | | |
| Bile Duct, Hyperplasia | | | | | | | | | 1 | | | | | | | | | | 1 | | | | | | | | | | |
| Biliary Tract, Cyst | | | | X | | |
| Centrilobular, Necrosis | | | |
| Left Lateral Lobe, Developmental Malformation | | | | | | | | X | | X | | X | | | | | X | | | | X | | | | X | | | | |
| Median Lobe, Developmental Malformation | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Right Lateral Lobe, Developmental Malformation | | X | | | | | | | | |
| Mesentery | | + | | | | | | + | | | | | | | | + | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | 3 | | | | | | | | 3 | | | | | | | | | | | | | |
| Pancreas | + | + | | | |
| Accessory Spleen | | X | | | |
| Infiltration Cellular, Lymphocyte | | | |
| Acinar Cell, Atrophy | | | 1 | 1 | 1 | 2 | | 2 | | 2 | | | 2 | | | 1 | | 2 | | 3 | | 2 | 1 | | 2 | | | | |
| Salivary Glands | + | + | | | |
| Stomach, Forestomach | + | + | | | |
| Edema | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | 2 | | |
| Inflammation | | | 2 | | |
| Stomach, Glandular | + | + | | | |
| CARDIOVASCULAR SYSTEM | | | |
| Blood Vessel | + | + | | | |
| Heart | + | + | | | |
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | | | |
| + .. Tissue examined microscopically | | | |
| X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | 0
7
4
4 | 0
6
9
6 | 0
7
3
2 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
3 | 0
5
1
8 | 0
7
4
3 | 0
7
4
3 | 0
7
4
4 | 0
7
4
4 | 0
6
6
3 | 0
7
4
4 | 0
7
4
4 | 0
6
8
7 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | females
(cont...) | |
|---|---|-----------------------|------------------|----------------------|--|
| | ANIMAL ID | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
7
1 | 0
0
1
7
2 | 0
0
1
8
1 | 0
0
1
8
2 | 0
0
1
9
1 | 0
0
5
6
2 | 0
0
5
6
2 | 0
0
5
7
1 | 0
0
5
8
2 | 0
0
5
8
2 | 0
0
5
9
1 | 0
0
5
9
2 | 0
1
4
6
1 | 0
1
4
6
2 | 0
1
4
7
1 | 0
1
4
7
2 | 0
1
4
8
1 | 0
1
4
8
2 | 0
1
4
9
1 | 0
1
4
9
2 | 0
1
7
1
1 | | | |
| | Cardiomyopathy | 2 | | 2 | | 2 | | 2 | 2 | 2 | | | 2 | 2 | | 2 | 2 | | 2 | 2 | 2 | 1 | 2 | 2 | 2 | | |
| | Infiltration Cellular, Lymphocyte
Mineralization
Atrium, Thrombosis | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | |
| Adrenal Cortex | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | X | | | |
| Angiectasis | | | | 2 | | 2 | 3 | 3 | 2 | 1 | 3 | 3 | | 2 | 3 | 2 | 2 | 2 | | 2 | 2 | 2 | 3 | 3 | 2 | 2 | |
| Atrophy | | | | | |
| Hematopoietic Cell Proliferation | | | | | |
| Hypertrophy, Focal | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | |
| Angiectasis | | | | | |
| Hyperplasia, Focal | | | | 1 | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | |
| Parathyroid Gland | + | + | M | + | + | + | + | |
| Pituitary Gland | + | + | + | + | |
| Angiectasis | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | |
| Pars Distalis, Hyperplasia | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| Pars Nervosa, Cyst | | | | | |
| Thyroid Gland | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | 0
7
4
4 | 0
6
9
6 | 0
7
3
2 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
5
1
8 | 0
7
4
3 | 0
7
4
3 | 0
7
4
4 | 0
7
4
4 | 0
6
6
3 | 0
7
4
4 | 0
7
4
4 | 0
6
8
7 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | females
(cont...) |
|---|---------------------|------------------|----------------------|
| | ANIMAL ID | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
7
1 | 0
0
1
7
2 | 0
0
1
8
1 | 0
0
1
8
2 | 0
0
1
9
1 | 0
0
1
9
2 | 0
0
5
6
1 | 0
0
5
7
2 | 0
0
5
7
1 | 0
0
5
8
2 | 0
0
5
8
1 | 0
0
5
9
2 | 0
1
4
6
1 | 0
1
4
6
2 | 0
1
4
7
1 | 0
1
4
7
2 | 0
1
4
8
1 | 0
1
4
8
2 | 0
1
4
9
1 | 0
1
7
9
2 | | |
| | C-cell, Hyperplasia | | | | | 4 | | | | | 1 | | | | | 1 | | 1 | | 1 | 2 | | 1 | 1 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| |
|-----------------------------------|
| Clitoral Gland | + | |
| Inflammation | 2 | | 3 | | | 3 | 2 | | 4 | 2 | 2 | 2 | 2 | | 3 | 3 | 2 | | 4 | 3 | 1 | 2 | 2 | | |
| Duct, Ectasia | 2 | | | | | 3 | 2 | | | | | | 2 | 3 | | 3 | 2 | 3 | | 3 | | | | | |
| Ovary | + | |
| Atrophy | 2 | | 2 | | 2 | 4 | 1 | 4 | 2 | 4 | 2 | 2 | 4 | 3 | 4 | 2 | 2 | 3 | | | 2 | 2 | 2 | | 2 |
| Cyst | | | | | | X | | | | | | | | | | | | | | X | | | | | |
| Infiltration Cellular, Histiocyte | |
| Infiltration Cellular, Lymphocyte | |
| Uterus | + | |
| Inflammation | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | 2 | 2 | | | 3 | | | | | | | | 2 | | | | | | 2 | |
| Horn, Dilatation | 2 | |
| Vagina | | | | | | | | | | | | | + | | | | | | | | | | | | |
| Mucocyte, Metaplasia | | | | | | | | | | | | | 3 | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

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

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

+ .. Tissue 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | 0
7
4
4 | 0
6
9
6 | 0
7
3
2 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
5
1
8 | 0
7
4
3 | 0
7
4
3 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
6
6
3 | 0
7
4
4 | 0
7
4
4 | 0
6
8
7 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | 0
7
4
4 | females
(cont...) | | | | | | | |
|---|-------------|------------------|----------------------|---|--|--|--|--|--|--|
| | ANIMAL ID | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
7
1 | 0
0
1
7
2 | 0
0
1
8
1 | 0
0
1
8
2 | 0
0
1
9
1 | 0
0
1
9
2 | 0
0
5
6
1 | 0
0
5
6
2 | 0
0
5
7
1 | 0
0
5
8
1 | 0
0
5
8
2 | 0
0
5
9
1 | 0
0
5
9
2 | 0
1
4
6
1 | 0
1
4
6
2 | 0
1
4
7
1 | 0
1
4
7
2 | 0
1
4
8
1 | 0
1
4
8
2 | 0
1
4
9
1 | 0
1
4
9
2 | | | | | | | | | |
| | | | | | | | | | | |
| Atrophy | | 2 | | | | | | | | | |
| Lymph Node | | + | + | | + | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | |
| Medulla, Pancreatic, Sinus, Dilatation | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | |
| Lymph Node, Mandibular | | + | | | | | | | | |
| Atrophy, Lymphocyte | | | | | | | | | | |
| Degeneration, Cystic | | 2 | | | | | | | | | 2 | | | | | | | | | 2 | 2 | | 2 | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | |
| Medulla, Sinus, Dilatation | | 2 | | | | | | | | | |
| Lymph Node, Mesenteric | | + | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | |
| Lymphocyte, Atrophy | | | | | | | | | | |
| Spleen | | + | | | | | | | | |
| Hematopoietic Cell Proliferation | | 2 | | 3 | 2 | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | |
| Pigmentation | | | 3 | | | | | | | | | | | |
| Red Pulp, Atrophy | | | | | | | | | | |
| Thymus | | + | | | | | | | | |
| Atrophy | | 2 | | | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | | | | | | | |
| Cyst | | X | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | |

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

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20313 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

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

INTEGUMENTARY SYSTEM

| |
|------------------------|
| Mammary Gland | + |
| Galactoceles | | | | | | X | | | | X | X | | | | | | | | | X | | | | | |
| Lactation | | 2 | | | 2 | | | 2 | | | | | 3 | | 3 | | 2 | | 2 | 2 | | 1 | | 2 | |
| Alveolus, Hyperplasia | 4 | 3 | | | 2 | | 2 | | 2 | | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | | 2 | 2 | |
| Skin | + |
| Inflammation | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Ulcer | | | | | 2 | | | 3 | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | |
| Tail, Hyperkeratosis | | | | | | | | | | | | | | | | | 4 | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| |
|------------------------|
| Bone, Femur | + |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Osteopetrosis | 4 | | | | 2 | | | | | | | | | | | | 3 | | | | | 3 | | | |
| Skeletal Muscle | + |

NERVOUS SYSTEM

| |
|---------------------------|
| Brain, Brain Stem | + |
| Gliosis, Focal |
| Hypothalamus, Compression | | 3 | | | | | | | 2 | | | 2 | | | | | | | 2 | | | | | | |
| Brain, Cerebellum | + |
| Brain, Cerebrum | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue 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. 20313 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

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 Acrylamide
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 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

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

| | |
|---|--|
| Ventricle, Dilatation | |
| Peripheral Nerve, Sciatic
Axon, Degeneration | + | |
| | 1 | |
| Spinal Cord, Cervical
Axon, Degeneration | + | |
| Nerve, Degeneration | 1 | 1 | 1 | | | 1 | 1 | | 1 | | 1 | | | 1 | 1 | 1 | | 1 | | | | 1 | | | | | 1 | |
| Spinal Cord, Lumbar
Axon, Degeneration | + | |
| Nerve, Degeneration | | 1 | 1 | 1 | | | | | 1 | 2 | | | | | | 1 | 1 | | | 1 | | | | 1 | | | 1 | |
| Spinal Cord, Thoracic
Axon, Degeneration | + | |
| Nerve, Degeneration | | 1 | | 1 | | | 1 | | | 1 | | | | | | | 1 | 1 | | | | | 1 | 1 | 1 | 1 | | |
| | 1 | |

RESPIRATORY SYSTEM

| | |
|--|---|
| Lung
Granuloma
Inflammation
Alveolar Epithelium, Hyperplasia
Alveolus, Infiltration Cellular, Histiocyte | + |
| | | | | | | | | | | | | 2 | | | | | | | 2 | 1 | | | | | | | |
| | | | | | | 1 | | | | 2 | 2 | | | | | 2 | | | | | | | | | | | |
| Nose
Inflammation
Osteopetrosis | + |
| | | | | | | 2 | | | | | | | | | | | 3 | | | | | | | 2 | | | |
| Trachea | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue 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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 Acrylamide
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 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | 0
7
4
4 | 0
6
9
6 | 0
7
3
2 | 0
7
4
4 | 0
7
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(cont...) |
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| | ANIMAL ID | 0
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SPECIAL SENSES SYSTEM

| |
|-----------------------------------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | |
| Retina, Degeneration | 1 | 2 | 1 | | 1 | | | 1 | | | | 1 | | 2 | | | 1 | | | | | | | | |
| Sclera, Metaplasia, Osseous |
| Harderian Gland | + |
| Atrophy | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | 1 | | | | 1 | 1 | | 1 | | | | 1 | 1 | 1 | | | | | | | | 1 | | |
| Inflammation |

URINARY SYSTEM

| |
|-----------------------------------|
| Kidney | + |
| Mineralization | | | 1 | 2 | | | | | | | 1 | | | | | 2 | 2 | | | | | 2 | | 2 | |
| Nephropathy | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | |
| Urinary Bladder | + |
| Dilatation |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | | DAY ON TEST | | | | | |
|--|--|-----------------------|---|-----|----|-----|
| | | 0
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| | | | | | | |
| | | * TOTALS | | | | | |
| Vacuolization Cytoplasmic | | 1 | | | | | | | | 4 | | 1 | | 2 | | | | | | | | | | 7 | 1.7 | | |
| Bile Duct, Hyperplasia | | | | | | 1 | | 1 | | | | | | | | | | 2 | | 1 | | 1 | | | | 7 | 1.1 |
| Biliary Tract, Cyst | | | | | 1 | |
| Centrilobular, Necrosis | | | | | | | | | | 4 | | | | | | | | 2 | | | | | | | | 2 | 3.0 |
| Left Lateral Lobe, Developmental Malformation | | X | | | | | | | | X | | | | | | X | | | | | | | | | | 9 | |
| Median Lobe, Developmental Malformation | | | | | 1 | |
| Right Lateral Lobe, Developmental Malformation | | | | | 1 | |
| Mesentery | | + | | | | | | + | | | | | | + | | | | + | | | | | | | | 7 | |
| Fat, Necrosis | | 2 | | | | | | | | | | | | 2 | | | | 3 | | | | | | | | 5 | 2.6 |
| Pancreas | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 48 | |
| Accessory Spleen | | | | | 1 | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | 3 | | | | | | | | | | | | | | 1 | 3.0 |
| Acinar Cell, Atrophy | | 2 | | 2 | | | | 2 | | | | 1 | | | | 1 | | | | 1 | | | | | | 20 | 1.7 |
| Salivary Glands | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 48 | |
| Stomach, Forestomach | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 48 | |
| Edema | | | | | 1 | 3.0 |
| Hyperplasia | | | | | 1 | 2.0 |
| Inflammation | | | | | 1 | 2.0 |
| Stomach, Glandular | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 48 | |
| CARDIOVASCULAR SYSTEM | | | | | | |
| Blood Vessel | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 48 | |
| Heart | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 48 | |
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | | | | | | |
| + .. Tissue examined microscopically | | | | | | |
| M .. Missing tissue | | | | | | |
| A .. Autolysis precludes evaluation | | | | | | |
| BLANK .. Not examined microscopically | | | | | | |
| 1-4 .. Lesion qualified as: | | | | | | |
| 1) Minimal 3) Moderate | | | | | | |
| 2) Mild 4) Marked | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Acrylamide
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 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Cardiomyopathy | | 2 | 2 | 2 | 2 | | 2 | 2 | | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 1 | 1 | | 2 | | 2 | 2 | | 35 | 1.9 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | 1.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 | 2.0 |
| Atrium, Thrombosis | | | | | | | | | | | | | X | | | | | | X | | | | | | | 3 | |

ENDOCRINE SYSTEM

| | |
|-----------------------------------|--------|
| Adrenal Cortex | + | 48 |
| Accessory Adrenal Cortical Nodule | | 1 |
| Angiectasis | 2 | 3 | 3 | 4 | | 2 | 2 | | 1 | 2 | 3 | | 2 | | 3 | 2 | 2 | | 3 | 2 | 2 | 2 | | | 37 2.3 |
| Atrophy | | | | | | | | | | | | | | | | | | 3 | | | | | | | 1 3.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | 3 | | | | | | | | | | | | 1 3.0 |
| Hypertrophy, Focal | 2 | | | | | | | | | 2 | | | | | | | | | | | | 2 | | | 4 2.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | 4 | | | | | | | | | | | | | | 2 3.5 |
| Adrenal Medulla | + | 48 |
| Angiectasis | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Focal | | | 2 | | 3 1.7 |
| Islets, Pancreatic | + | 48 |
| Parathyroid Gland | + | 47 |
| Pituitary Gland | + | 48 |
| Angiectasis | 1 3.0 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | X | | X | | | | | 2 |
| Pars Distalis, Hyperplasia | | | | | | 4 | | | | 2 | 4 | | | | | | | | | | | | | | 4 3.5 |
| Pars Nervosa, Cyst | | | | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Thyroid Gland | + | 48 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | 0
7
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| C-cell, Hyperplasia | | | | | | 2 | 1 | | 1 | 1 | 1 | | 4 | | 2 | | | 1 | | | | | | | |
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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | |
|-----------------------------------|----|----|-----|
| Clitoral Gland | + | 48 | | |
| Inflammation | | | | | | | | 3 | | 2 | 2 | 1 | 2 | 2 | 3 | 3 | 3 | | | | 2 | 2 | | | | 29 | 2.4 |
| Duct, Ectasia | | | | | 3 | | 2 | | | | | | | | | 3 | | | | | | | | | | 12 | 2.6 |
| Ovary | + | 48 | | |
| Atrophy | 2 | 2 | 3 | 3 | 2 | | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | | | 2 | 2 | 2 | | | 2 | | | 38 | 2.4 |
| Cyst | | | X | | | | | | | | | | | | | X | | | | | | | | | | 4 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | 3 | | | | | | | | | 1 | 3.0 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | 3 | | | | | | | | | 1 | 3.0 |
| Uterus | + | 48 | | |
| Inflammation | | 1 | 2.0 |
| Thrombosis | | 1 | |
| Endometrium, Hyperplasia, Cystic | | | 3 | | | | | | 2 | | | | | 2 | | | | | | | | | | | | 8 | 2.3 |
| Horn, Dilatation | | | | | | | 3 | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Vagina | 1 | | |
| Mucocyte, Metaplasia | | 1 | 3.0 |

HEMATOPOIETIC SYSTEM

| | | | |
|-------------|----|--|--|
| Bone Marrow | + | 48 | | |
|-------------|----|--|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion 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: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | 0
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| | ANIMAL ID | 0
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| | | * TOTALS | | | | | | | | | |
| Atrophy | 3 | | | | | | | | | | | | 3 | | | | | | | | | | 3 2.7 | | | | | | | |
| Lymph Node | + | | | | | | | | | | | | + | | | | | | | | | | 7 | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 | | | | | | | |
| Medulla, Pancreatic, Sinus, Dilatation | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 | | | | | | | |
| Renal, Hyperplasia, Lymphoid | 3 | | 1 3.0 | | | | | | | |
| Lymph Node, Mandibular | + | + | 48 | | | | | | | |
| Atrophy, Lymphocyte | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 | | | | | | | |
| Degeneration, Cystic | 1 2 | | 7 1.9 | | | | | | | |
| Hyperplasia, Lymphoid | | | 1 2.0 | | | | | | | |
| Infiltration Cellular, Plasma Cell | 2 | | | | | | | | | | | | 3 4 | | | | | | | | | | 4 3.0 | | | | | | | |
| Medulla, Sinus, Dilatation | | | 1 2.0 | | | | | | | |
| Lymph Node, Mesenteric | + | + | 48 | | | | | | | |
| Hemorrhage | | | 1 2.0 | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | 2 | | | | | | | | | | 2 2.0 | | | | | | | |
| Lymphocyte, Atrophy | | | | | | | | | | | | | 4 | | | | | | | | | | 1 4.0 | | | | | | | |
| Spleen | + | + | 48 | | | | | | | |
| Hematopoietic Cell Proliferation | 3 | | | | | | | | | | | | 4 2 | | | | | | 4 3 | | | | | | 8 2.9 | | | | | |
| Hyperplasia, Lymphoid | 3 | | 1 3.0 | | | | | | | |
| Pigmentation | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 3 2.3 | |
| Red Pulp, Atrophy | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 3.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 47 | | | | | | | |
| Atrophy | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | | 2 | 2 | 2 | 2 | 44 2.2 | | | | | | | |
| Cyst | X | | | | | | | | | | | | X | | | | | | | | | | | | | | | | 4 | |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 | |

* .. 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
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 CAS Number: 79-06-1

Date Report Requested: 01/15/2010
 Time Report Requested: 14:38:46
 First Dose M/F: 05/23/05 / 05/23/05
 Lab: NCTR

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

INTEGUMENTARY SYSTEM

| | |
|------------------------|--------|
| Mammary Gland | + | 48 |
| Galactoceles | | | X | X | | | | | | | | | | | | | | | | | | | | 6 |
| Lactation | 1 | | 2 | 3 | 3 | 1 | | 2 | 2 | 1 | | 2 | | | 2 | | | | 2 | 1 | | 1 | | 23 1.9 |
| Alveolus, Hyperplasia | 1 | 2 | 2 | 4 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | | 3 | 2 | | 3 | 2 | 3 | | 1 | | 37 2.2 |
| Skin | + | 48 |
| Inflammation | 1 3.0 |
| Ulcer | 2 2.5 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 |
| Tail, Hyperkeratosis | 1 4.0 |

MUSCULOSKELETAL SYSTEM

| | |
|------------------------|-------|
| Bone, Femur | + | 48 |
| Fibrous Osteodystrophy | | 1 2.0 |
| Osteopetrosis | 3 | | 5 3.0 |
| Skeletal Muscle | + | 48 |

NERVOUS SYSTEM

| | |
|---------------------------|--------|
| Brain, Brain Stem | + | 48 |
| Gliosis, Focal | 1 1.0 |
| Hypothalamus, Compression | | | 3 | 2 | | | | | 2 | 2 | | | 2 | | | | | 2 | | | | | | 10 2.2 |
| Brain, Cerebellum | + | 48 |
| Brain, Cerebrum | + | 48 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 20313 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Acrylamide
 CAS Number: 79-06-1

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
FEMALE
CONTROL WATER | DAY ON TEST | 0
7
4
4 | 0
7
4
4 | 0
6
9
8 | 0
5
5
3 | 0
5
7
2 | 0
7
4
4 | 0
7
4
4 | 0
7
7
0
6 | 0
7
4
4 | 0
7
4
4 | 0
6
6
6 | 0
7
4
4 | 0
6
7
7 | 0
7
4
4 | 0
7
4
4 | 0
4
7
0 | 0
6
8
4 | 0
7
4
4 | 0
7
4
4 | 0
5
9
0 | 0
7
4
4 | | | | | |
|--|-------------|-----------------------|--|---|----------|--|
| | ANIMAL ID | 0
1
7
1
2 | 0
1
7
2
1 | 0
1
7
2
2 | 0
1
7
3
1 | 0
1
7
3
2 | 0
1
7
4
1 | 0
1
7
4
2 | 0
2
0
1
2 | 0
2
0
1
2 | 0
2
0
2
1 | 0
2
0
3
2 | 0
2
0
3
2 | 0
2
0
4
1 | 0
2
0
4
2 | 0
2
0
4
1 | 0
2
0
4
2 | 0
2
2
8
1 | 0
2
2
8
2 | 0
2
2
9
1 | 0
2
2
9
2 | 0
2
5
0
1 | 0
2
5
0
2 | | | | |
| | | | | | | |
| | | | | | * TOTALS | |
| Ventricle, Dilatation | | | | 1 2.0 | | |
| Peripheral Nerve, Sciatic
Axon, Degeneration | | | | 48
4 1.0 | | |
| Spinal Cord, Cervical
Axon, Degeneration
Nerve, Degeneration | | | | 48
22 1.0
2 1.0 | | |
| Spinal Cord, Lumbar
Axon, Degeneration
Nerve, Degeneration | | | | 48
1 1.0
16 1.1 | | |
| Spinal Cord, Thoracic
Axon, Degeneration
Nerve, Degeneration | | | | 48
18 1.0
1 1.0 | | |
| RESPIRATORY SYSTEM | | | | | | |
| Lung
Granuloma
Inflammation
Alveolar Epithelium, Hyperplasia
Alveolus, Infiltration Cellular, Histiocyte | | | | 48
6 1.3
1 2.0
1 2.0
13 1.8 | | |
| Nose
Inflammation
Osteopetrosis | | | | A | | 47
5 2.2
3 2.3 | | |
| Trachea | | | | 48 | | |

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

SPECIAL SENSES SYSTEM

| | | | | |
|-----------------------------------|--|----|-----|-----|
| Eye | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | | 45 | | |
| Retina, Degeneration | | | 2 | | | | | | 3 | | | | 2 | | 1 | 3 | | | 1 | | | | | | 14 | 1.6 |
| Sclera, Metaplasia, Osseous | | | | | | 2 | 2 | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Harderian Gland | + | | 48 | | |
| Atrophy | | | 1 | 3.0 |
| Infiltration Cellular, Lymphocyte | | | | | 1 | | | | 1 | 1 | | 1 | | | 1 | 1 | | | | | | | | | 14 | 1.0 |
| Inflammation | | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 | 1.0 |

URINARY SYSTEM

| | | | |
|-----------------------------------|----|----|-----|
| Kidney | + | 48 | | |
| Mineralization | 2 | 2 | 2 | | | 2 | | | | 2 | 2 | 2 | 2 | | 1 | | | 3 | 2 | | 1 | 1 | | 21 | 1.8 |
| Nephropathy | 2 | 2 | 3 | 3 | | 1 | 1 | 4 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | | 1 | 1 | 44 | 1.8 |
| Urinary Bladder | + | 48 | | |
| Dilatation | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Infiltration Cellular, Lymphocyte | | 2 | 1.0 |

*** END OF REPORT ***

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