

**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																								ANIMAL ID	males (cont...)	
	0621	0744	0744	0698	0744	0536	0733	0561	0744	0771	0663	0764	0671	0764	0507	0744	0557	0594	0744	0594	0744	0775	0583	0663			0421
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0002	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0003	
	1	1	2	2	3	3	4	4	5	5	1	2	2	3	3	4	4	5	5	5	5	4	4	4	4	0004	
	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	0005	

**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								2	2						3									
Eosinophilic Focus				X											X					X				
Eosinophilic Focus, Multiple Granuloma																							X	
Hematopoietic Cell Proliferation															2									3
Hepatodiaphragmatic Nodule Infiltration Cellular, Lymphocyte							X																	1

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ANIMAL ID	males (cont...)
FISCHER 344 RATS-NCTR RATS MALE		6	7	7	6	7	5	7	5	7	7	6	6	7	6	5	7	5	5	7	5	7	7	5	6	4		
0.70 ACRYL		2	4	4	9	4	3	3	6	4	0	0	7	4	1	0	4	6	9	4	9	4	2	8	6	2		
		1	4	4	8	4	6	0	1	4	1	3	6	3	2	7	4	7	2	4	3	4	5	3	3	1		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		1	1	2	2	3	4	4	5	5	1	1	2	2	3	3	4	4	5	5	1	1	2	2	2	3		
		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		
Necrosis, Coagulative																												
Vacuolization Cytoplasmic																												
Bile Duct, Hyperplasia		2	2	2		1		3	1	3	2				2					2	2		1					
Centrilobular, Necrosis																												
Hepatocyte, Hyperplasia																												
Left Lateral Lobe, Developmental Malformation																											X	
Right Lateral Lobe, Developmental Malformation													X															
Mesentery																												
Fat, Necrosis																												
Oral Mucosa																												
Hyperplasia																												
Pancreas																												
Inflammation																												
Polyarteritis																												
Acinar Cell, Atrophy																												
Mesothelium, Hyperplasia																												
Salivary Glands																												
Stomach, Forestomach																												
Edema																												
Hyperplasia																												
Inflammation																												
Stomach, Glandular																												

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	0621	0744	0744	0698	0744	0536	0733	0561	0744	0771	0566	0767	0660	0741	0663	0711	0574	0556	0744	0594			0743	0774	0552	0683
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	1111	2221	2221	2221	3331	3332	4441	5552	5551	1112	1111	2221	2222	3331	3332	4441	4442	5551	5552	5551	5552	1111	1112	1111	1112	1111

Tongue

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	2	2	2	2	2	2	3	2	2	2	2	3	2	2	2	2	2	2	2	2	3	1	1	1	1
Inflammation		2																								
Atrium, Thrombosis				X			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																										2
Hyperplasia, Focal										2					2		2									
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+
Atrophy	2																									
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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	0621	0744	0774	0698	0744	0536	0733	0561	0744	0771	0663	0677	0667	0741	0672	0507	0744	0567	0559	0744	0579	0744	0525	0683			0663	0421
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0002	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0003	
	1	1	2	2	3	3	4	4	5	5	1	1	2	2	3	3	4	4	5	5	1	1	2	2	3	3	0004	
	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	0005	

Angiectasis	2																											
Pars Distalis, Cyst																										X		
Pars Distalis, Hyperplasia																										2 2		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
C-cell, Hyperplasia																										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	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																										3 2		
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation	3					2	4		2	2	3	4	2			2	2				3		2	2	2			

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	0621	0744	0744	0698	0744	0536	0733	0561	0744	0771	0653	0667	0741	0662	0570	0744	0556	0794	0744	0573			0774	0558	0663
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	2	2	3	3	4	4	5	5	1	1	2	2	3	3	4	4	5	5	1	1	2	2	3
	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

Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy				2	2									2								2	2		
Decreased Secretory Fluid																									
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		2
Hyperplasia, Lymphoid										2														2

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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 Infarct				X						X				X					X	X							
Pigmentation Red Pulp, Atrophy	2	3						3																			
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst	3	2	2	2	3	2	2	2	2	2	3			2	3	2	3	2	2	2	2		2	2		2	2

**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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	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	

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

**RESPIRATORY SYSTEM**

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

**SPECIAL SENSES SYSTEM**

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

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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 0.70 ACRYL	DAY ON TEST																				* TOTALS	
	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 8	0 5 7 4		0 7 4 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 2	0 1 8 2 2	0 1 8 3 1	0 1 8 3 4	0 1 8 3 4	0 1 8 4 5	0 1 8 4 5	0 2 4 3 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

**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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 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

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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 5 4	0 5 4 9	0 7 5 6	0 5 1 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 5 1	0 1 8 1 2	0 1 8 2 2	0 1 8 2 2	0 1 8 3 1	0 1 8 3 4	0 1 8 3 4	0 1 8 4 5	0 1 8 4 5	0 2 4 3 2	0 2 4 3 2	0 2 4 4 1	0 2 4 5 2	0 2 4 5 1	0 2 4 6 2	0 2 4 6 1	0 2 4 6 2		
Necrosis, Coagulative																						2	2 1.5	
Vacuolization Cytoplasmic								3															3	2 2.0
Bile Duct, Hyperplasia	2	2			2			3		2	2				2		3				2		21 2.0	
Centrilobular, Necrosis								2															1 2.0	
Hepatocyte, Hyperplasia																							1 3.0	
Left Lateral Lobe, Developmental Malformation																							1	1
Right Lateral Lobe, Developmental Malformation																							1	1
Mesentery																							4	4
Fat, Necrosis																							3 2.7	3 2.7
Oral Mucosa																							3	3
Hyperplasia																							2 2.0	2 2.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	48
Inflammation																							1 2.0	1 2.0
Polyarteritis																						2	1 2.0	1 2.0
Acinar Cell, Atrophy	1							1	3	1	2											9 1.7	9 1.7	
Mesothelium, Hyperplasia																							1 2.0	1 2.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	48	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	48
Edema																							2 3.5	2 3.5
Hyperplasia																						2	4 2.3	4 2.3
Inflammation																						3	1 3.0	1 3.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	48	

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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 5 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 8		0 5 7 4	0 5 4 6
ANIMAL ID	0 1 4 3 2	0 1 4 4 1	0 1 4 4 2	0 1 4 4 1	0 1 4 4 2	0 1 8 5 1	0 1 8 1 2	0 1 8 2 1	0 1 8 2 2	0 1 8 3 2	0 1 8 3 4	0 1 8 3 2	0 1 8 4 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	0 2 5 6 2

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

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

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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 5 4	0 5 4 9	0 5 5 6	0 7 1 8	0 5 7 4		0 5 4 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 4	0 1 8 3 2	0 1 8 4 1	0 1 8 5 2	0 2 4 3 1	0 2 4 3 2	0 2 4 4 1	0 2 4 5 1	0 2 4 5 2	0 2 4 6 1	0 2 4 6 2	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Atrophy							2								2			2				9 2.0
Decreased Secretory Fluid					3																	1 3.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Polyarteritis		3																				1 3.0
Interstitial Cell, Hyperplasia	2																					3 2.0
Seminiferous Tubule, Atrophy		3	3								3	4								4		16 3.2
<b>HEMATOPOIETIC SYSTEM</b>																						
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Atrophy																	3					4 3.3
Hyperplasia				2								4										3 2.7
Myeloid Cell, Hyperplasia	2																					1 2.0
Lymph Node		+		+	+				+	+		+	+	+	+		+			+	+	24
Degeneration, Cystic																						1 3.0
Inflammation																						1 3.0
Lumbar, Hyperplasia, Lymphoid				2																		1 2.0
Mediastinal, Hyperplasia, Lymphoid						2																1 2.0
Mediastinal, Infiltration Cellular, Mast Cell						3																1 3.0
Mediastinal, Medulla, Sinus, Dilatation																						1 4.0
Medulla, Renal, Sinus, Dilatation																			4			1 4.0
Pancreatic, Hyperplasia, Lymphoid																						1 2.0
Renal, Degeneration, Cystic		3																				3 3.7
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Degeneration, Cystic				3	2				2		3				2	2			2			12 2.3
Hyperplasia, Lymphoid																						2 2.0

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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 5 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 1 8	0 5 7 4	0 7 4 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 2	0 1 8 3 4	0 1 8 3 2	0 1 8 4 1	0 1 8 5 2	0 2 4 3 2	0 2 4 3 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 2	
Infiltration Cellular, Plasma Cell		3	3	2		3		2							2		4					<b>18 2.5</b>
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>
Degeneration, Cystic														2						4		<b>5 3.2</b>
Hemorrhage						2				2												<b>3 2.0</b>
Hyperplasia, Lymphoid						2			2													<b>4 2.0</b>
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>
Accessory Spleen													X									<b>2</b>
Infarct							X		X							X	X					<b>9</b>
Pigmentation																						<b>1 2.0</b>
Red Pulp, Atrophy														2								<b>4 2.5</b>
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>47</b>
Atrophy	2	3	3	3	2	2	3	2	3	3	2	2	3	2	2		2	3	3	2	2	<b>43 2.3</b>
Cyst																						<b>1</b>
<b>INTEGUMENTARY SYSTEM</b>																						
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	M	<b>44</b>
Galactocele		X								X	X		X					X				<b>9</b>
Lactation		3				4	2			2		2		2		1						<b>19 2.3</b>
Alveolus, Hyperplasia		2				4						1			2					3		<b>10 2.2</b>
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>
Abscess																						<b>1 4.0</b>
Cyst Epithelial Inclusion																						<b>1</b>
Fat, Subcutaneous Tissue, Necrosis																						<b>1 3.0</b>
Tail, Hyperkeratosis																		2				<b>1 2.0</b>

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

**MUSCULOSKELETAL SYSTEM**

Bone																							1
Cranium, Fracture																							1
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

**NERVOUS SYSTEM**

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hypothalamus, Compression			2							1													9 2.1
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hemorrhage																		2					1 2.0
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hemorrhage																		1					1 1.0
Hydrocephalus																							1 2.0
Ventricle, Dilatation																							1 2.0
Peripheral Nerve, Sciatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Axon, Degeneration			1		1	1		1		1	1		2	1					1	1		1	23 1.0
Spinal Cord, Cervical	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Degeneration, Focal													2										1 2.0
Axon, Degeneration			1	1	1					1					1		1				1	1	19 1.0
Spinal Cord, Lumbar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

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

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 M .. Missing tissue  
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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																				* TOTALS
	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 5 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 8	0 5 7 4	
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 4	0 1 8 4 2	0 1 8 5 1	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 5 1	0 2 4 5 2

**URINARY SYSTEM**

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

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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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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																				ANIMAL ID	males (cont...)			
	0691	0744	0691	0564	0774	0774	0774	0774	0774	0631	0744	0686	0775	0774	0774	0661	0667	0542	0477	0774			0774	0575	0774
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00361	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum Dilatation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X
Lymphoid Tissue, Hyperplasia																								2
Intestine Large, Colon Lymphoid Tissue, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum Mucosa, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum Lymphoid Tissue, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum Lymphoid Tissue, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2 3
Liver Angiectasis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3
Basophilic Focus, Multiple Degeneration, Cystic																								X 2
Eosinophilic Focus																								X
Eosinophilic Focus, Multiple																								X
Granuloma																								1 2
Hematopoietic Cell Proliferation																								2 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  
 Time Report Requested: 14:38:46  
 First Dose M/F: 05/23/05 / 05/23/05  
 Lab: NCTR

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

**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																									ANIMAL ID	males (cont...)
	0691	0744	0691	0564	0774	0774	0774	0774	0774	0673	0744	0676	0775	0774	0774	0662	0662	0592	0435	0778	0774	0774	0575	0774			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00361		

Galactocoele									X								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			+																						
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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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																								ANIMAL ID	males (cont...)
	0691	0744	0691	0561	0774	0774	0774	0774	0774	0676	0767	0676	0774	0774	0774	0662	0665	0544	0477	0774	0774	0575	0774			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00361		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00333		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00667		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00121		

Harderian Gland +  
 Infiltration Cellular, Lymphocyte 1

Zymbal's Gland

**URINARY SYSTEM**

Kidney +  
 Accumulation, Hyaline Droplet  
 Hydronephrosis 2 2  
 Nephropathy 2 3 2 2 3 4 2 4 3 2 3 3 1 3 3 3 2 2 2 1 3 3 4 3 3  
 Pigmentation  
 Cortex, Inflammation, Chronic

Urinary Bladder +

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TDMS No. 20313 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Acrylamide  
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 Lab: NCTR

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

**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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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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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST																				* TOTALS		
	0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 6	0 6 6 9	0 6 6 4	0 7 0 4	0 6 7 7	0 6 3 3	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 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 6 2	0 1 7 6 1	0 1 7 6 2	0 1 7 6 1	0 1 7 7 2	0 1 7 7 8	0 1 7 7 8	0 1 7 7 9	0 1 7 7 9	0 1 8 0 1	0 2 8 4 1	0 2 1 4 2	0 2 1 5 1	0 2 1 6 2	0 2 1 6 1	0 2 1 6 2	0 2 1 7 1	0 2 1 7 2	
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  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344/NCTR

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

FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST																				* TOTALS	
	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 7 8 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 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 6 1	0 1 7 7 2	0 1 7 7 1	0 1 7 8 2	0 1 7 8 1	0 1 8 8 2	0 1 8 9 1	0 2 1 4 1	0 2 1 4 2	0 2 1 5 1	0 2 1 6 2	0 2 1 6 1	0 2 1 6 2	0 2 1 7 1	0 2 1 7 2
Ulcer																					3 4 4	4 3.5
Stomach, Glandular	+																				48	
Amyloid Deposition																						1 2.0
Hemorrhage																						1 2.0
Inflammation																						1 2.0
Tongue																						2
<b>CARDIOVASCULAR SYSTEM</b>																						
Blood Vessel	+																				48	
Heart	+																				48	
Cardiomyopathy																						38 2.0
Dilatation																						1 4.0
Atrium, Thrombosis																						11
Myocardium, Hypertrophy																						1 2.0
<b>ENDOCRINE SYSTEM</b>																						
Adrenal Cortex	+																				48	
Angiectasis																						1 3.0
Hyperplasia, Focal																						2 2.0
Hypertrophy, Focal																						6 2.3
Thrombosis																						1 2.0
Vacuolization Cytoplasmic																						11 2.2
Adrenal Medulla	+																				48	
Angiectasis																						2 2.5

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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 0.35 ACRYL	DAY ON TEST																				* TOTALS	
	0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 6	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 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 6 1	0 1 7 7 2	0 1 7 7 1	0 1 7 7 2	0 1 7 7 1	0 1 8 8 1	0 1 8 8 2	0 2 1 4 1	0 2 1 4 2	0 2 1 5 1	0 2 1 6 2	0 2 1 6 1	0 2 1 6 2	0 2 1 7 1	0 2 1 7 2
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

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	0 7 4 4	0 7 2 6	0 6 9 8	0 5 8 6	0 7 4 4	0 6 5 6	0 6 6 9	0 6 6 4	0 7 0 4	0 6 7 7	0 6 3 3	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 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 6 1	0 1 7 7 2	0 1 7 7 1	0 1 7 7 2	0 1 7 7 1	0 1 7 7 2	0 1 8 8 1	0 2 8 0 2	0 2 1 4 1	0 2 1 4 1	0 2 1 5 1	0 2 1 6 1	0 2 1 6 2	0 2 1 7 1	0 2 1 7 2		
Preputial Gland																					<b>48</b>			
Inflammation	1	2	3		3		3	4	1	2	4	2	3	1	3	3	4		4	2		2	<b>34</b>	<b>2.6</b>
Duct, Ectasia	2	2			2							3		3				3					<b>14</b>	<b>2.7</b>
Glandular, Hyperplasia																							<b>1</b>	<b>2.0</b>
Prostate																					<b>48</b>			
Inflammation	3				2	3	2	2			2		2	4	2	2		1	3	2	2	2	<b>32</b>	<b>2.2</b>
Seminal Vesicle																					<b>48</b>			
Atrophy		2				2		2														2	<b>9</b>	<b>2.0</b>
Decreased Secretory Fluid																							<b>1</b>	<b>4.0</b>
Testes																					<b>48</b>			
Interstitial Cell, Hyperplasia																							<b>3</b>	<b>3.0</b>
Seminiferous Tubule, Atrophy			4			3		4	4					4					4				<b>13</b>	<b>3.2</b>

**HEMATOPOIETIC SYSTEM**

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

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 Lab: NCTR

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

Renal, Hemorrhage	2																				1 2.0
Lymph Node, Mandibular Degeneration, Cystic Hemorrhage	+ +																				48 12 2.6
Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell Inflammation	2 2 3 3 4 2																				1 3.0 6 2.5 6 3.0 1 2.0
Lymph Node, Mesenteric Degeneration, Cystic Hemorrhage	+ +																				48 4 2.3
Infiltration Cellular, Plasma Cell Medulla, Sinus, Dilatation	3 2																				3 2.3 1 3.0 1 3.0
Spleen Accessory Spleen Hematopoietic Cell Proliferation Infarct	+ +																				48 4 1 3.0 10
Pigmentation Capsule, Hematocyst Red Pulp, Atrophy	3 X 3 X X X 3 X 3																				3 2.7 1 3 3.0
Thymus Atrophy Cyst	+ +																				48 35 2.3 1

**INTEGUMENTARY SYSTEM**

Mammary Gland	+ + + M + + + + + + M + + + + M + + + + + + +																				43
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 Acrylamide  
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FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST																				* TOTALS	
	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 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 5 6	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 8 1	0 1 8 9 2	0 2 1 0 1	0 2 1 4 2	0 2 1 5 1	0 2 1 5 2	0 2 1 6 1	0 2 1 6 2	0 2 1 7 1	0 2 1 7 2
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
<b>MUSCULOSKELETAL SYSTEM</b>																						
Bone																						1
Vertebra, Fracture																						1
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
<b>NERVOUS SYSTEM</b>																						
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				5 2.0
Peripheral Nerve, Sciatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Axon, Degeneration		1					1				1			1			1		1	1	1	11 1.0

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.35 ACRYL	DAY ON TEST																				* TOTALS	
	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 8	0 4 2 0	0 7 5 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 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 6 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 8 1	0 1 8 9 2	0 1 8 0 1	0 2 1 4 2	0 2 1 4 2	0 2 1 5 1	0 2 1 6 1	0 2 1 6 1	0 2 1 6 2	0 2 1 7 1	0 2 1 7 2
Spinal Cord, Cervical Axon, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
		1			1		1	1			1			1			1		1		1	22 1.0
Spinal Cord, Lumbar Axon, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Nerve, Degeneration	1			1	1	1				1				1					1	1	1	16 1.0
Spinal Cord, Thoracic Axon, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Nerve, Degeneration	1	1	1	1	1	1	1	1	1		1	1		1	1		1	1	1	1	1	32 1.0
																						2 1.0
<b>RESPIRATORY SYSTEM</b>																						
Lung Granuloma Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Alveolus, Infiltration Cellular, Histiocyte	2								2		1									2		6 1.3
Nose Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
											2									2		6 2.3
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
<b>SPECIAL SENSES SYSTEM</b>																						
Eye Phthisis Bulbi Retina, Degeneration Sclera, Metaplasia, Osseous	+	+	+	+	+	+	+	M	A	+	+	+	+	+	+	+	+	+	+	+	+	46
																						1
														4								2 3.5
																						1 2.0

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

Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>
Infiltration Cellular, Lymphocyte						1																	<b>2 1.0</b>
Zymbal's Gland																				+			<b>1</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>
Accumulation, Hyaline Droplet						4																	<b>1 4.0</b>
Hydronephrosis																							<b>2 2.0</b>
Nephropathy	3	3	2	2	3	2	3	2	3	2	4	2	2	4	2	2	2	3	3	3	3	2	<b>48 2.6</b>
Pigmentation															3								<b>1 3.0</b>
Cortex, Inflammation, Chronic	2																						<b>1 2.0</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.175 ACRYL	DAY ON TEST																								ANIMAL ID	males (cont...)
	0680	0562	0712	0733	0569	0376	0677	0044	0041	0074	0644	0044	0072	0063	0055	0074	0074	0051	0074	0075	0084	0074	0074	0000		
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
	4411	4421	4421	4432	4431	4442	4441	4442	4451	4452	4461	4462	4471	4472	4481	4482	4491	4492	4400	4401	4402	4411	4412	4421		

**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																								
Eosinophilic Focus																								
Granuloma																								
Hematopoietic Cell Proliferation																								
Hepatodiaphragmatic Nodule																								
Necrosis, Coagulative																								
Vacuolization Cytoplasmic																								

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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

FISCHER 344 RATS-NCTR RATS MALE 0.175 ACRYL	DAY ON TEST																				ANIMAL ID	males (cont...)			
	0680	0562	0712	0733	0569	0376	0674	0764	0641	0744	0524	0744	0772	0630	0555	0744	0775	0574	0779	0558			0744	0774	0574
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																									
Oral Mucosa																									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Accessory Spleen																									
Polyarteritis																									
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																									

**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  
 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  
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FISCHER 344 RATS-NCTR RATS MALE 0.175 ACRYL	DAY ON TEST																								ANIMAL ID	males (cont...)	
	0680	0562	0712	0733	0569	0376	0674	0764	0641	0744	0526	0744	0744	0726	0630	0555	0744	0744	0515	0744	0719	0585	0744	0744			0744
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				
<b>ENDOCRINE SYSTEM</b>																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Angiectasis								1												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		

\* .. Total animals 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  
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TDMS No. 20313 - 05  
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FISCHER 344 RATS-NCTR RATS MALE 0.175 ACRYL	DAY ON TEST																								ANIMAL ID	males (cont...)	
	0680	0562	0712	0733	0539	0367	0674	0074	0061	0074	0064	0074	0077	0077	0077	0066	0055	0077	0077	0055	0077	0077	0055	0077			0077
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0041	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0044	
	1	1	2	2	3	3	4	5	5	6	6	7	7	8	8	8	8	9	9	0	0	1	1	1	1	0011	
	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	0012	

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 2 3 2 2

Seminal Vesicle

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

Atrophy

2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Decreased Secretory Fluid

2 2 3 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  
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 Lab: NCTR

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

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

**HEMATOPOIETIC SYSTEM**

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone Marrow                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | 4         |
| Atrophy                             | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Hyperplasia                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Lymph Node                          |   |   | + | + |   | + | + |   | + |   |   |   | + | + |   |   |   | + | + |   | + |   |   |   |           |
| Deep Cervical, Degeneration, Cystic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| 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              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | 3 2 3 3 4 |
| Degeneration, Cystic                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Hemorrhage                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Hyperplasia, Lymphoid               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Infiltration Cellular, Plasma Cell  |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   | 3 | 3 |   | 3 |   |   |   | 3         |
| Lymph Node, Mesenteric              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 |           |
| Degeneration, Cystic                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
| Hyperplasia, Lymphoid               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |

\* .. 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  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Acrylamide  
 CAS Number: 79-06-1

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS<br>MALE<br>0.175 ACRYL | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0680        | 0562 | 0712 | 0733 | 0569 | 0376 | 0677 | 0044 | 0041 | 0044 | 0072 | 0074 | 0074 | 0076 | 0060 | 0055 | 0074 | 0077 | 0051 | 0074 | 0071 | 0058 | 0074 | 0074 |           |                    |
|   | 0000        | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000      |                    |
|   | 4411        | 4421 | 4422 | 4432 | 4431 | 4432 | 4441 | 4442 | 4451 | 4452 | 4461 | 4462 | 4471 | 4472 | 4481 | 4482 | 4491 | 4492 | 4401 | 4402 | 4411 | 4412 | 4421 | 4422 | 4431      |                    |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele            |   |   | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

| FISCHER 344 RATS-NCTR RATS<br>MALE<br>0.175 ACRYL | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID                | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|--------------------|
|   | 0680        | 0562 | 0712 | 0733 | 0539 | 0376 | 0674 | 0764 | 0641 | 0744 | 0574 | 0774 | 0777 | 0660 | 0555 | 0744 | 0774 | 0551 | 0744 | 0779 | 0585 | 0744 | 0774 | 0774 |                          |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 004111111111111111111111 |                    |

Nerve, Degeneration 1

**RESPIRATORY SYSTEM**

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

**SPECIAL SENSES SYSTEM**

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

**URINARY SYSTEM**

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

|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                        |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------|
| <b>FISCHER 344 RATS-NCTR RATS MALE</b><br><b>0.175 ACRYL</b> | DAY ON TEST | 0680 | 0562 | 0712 | 0733 | 0569 | 0366 | 0677 | 0044 | 0041 | 0044 | 0042 | 0046 | 0060 | 0055 | 0074 | 0074 | 0051 | 0074 | 0075 | 0058 | 0074 | 0074 | <b>males (cont...)</b> |
|  | ANIMAL ID   | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 | 0041 | 0042 |                        |
|  |             | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    |                        |

Bulbourethral Gland, Dilatation

2

Urinary Bladder Dilatation

+ + + + + 2 + + + + + + + + + 3 + + + + + + + + + +

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

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 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<br>MALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>6<br>8<br>0      | 0<br>7<br>1<br>8      | 0<br>6<br>7<br>3      | 0<br>6<br>9<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>7<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>1      | 0<br>7<br>3<br>8      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>7      |                       | 0<br>6<br>0<br>6      | 0<br>7<br>4<br>4      |
| ANIMAL ID   | 0<br>1<br>2<br>3<br>2 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>1<br>2 | 0<br>1<br>5<br>1<br>1 | 0<br>1<br>5<br>2<br>2 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>3<br>4 | 0<br>1<br>5<br>3<br>1 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>5<br>1 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>9<br>1 | 0<br>2<br>2<br>0<br>2 | 0<br>2<br>2<br>0<br>1 | 0<br>2<br>2<br>0<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 |

**ALIMENTARY SYSTEM**

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

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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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<br>MALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |    |     |  |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|-----|--|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>6<br>8<br>0      | 0<br>7<br>1<br>8      | 0<br>6<br>7<br>3      | 0<br>6<br>6<br>7      | 0<br>7<br>9<br>7      | 0<br>7<br>3<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>6<br>4      | 0<br>7<br>7<br>4      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>1      | 0<br>7<br>3<br>8      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>7      |                       | 0<br>6<br>0<br>6      | 0<br>7<br>4<br>4      |    |     |  |
| ANIMAL ID   | 0<br>1<br>2<br>3<br>2 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>1<br>2 | 0<br>1<br>5<br>1<br>2 | 0<br>1<br>5<br>1<br>2 | 0<br>1<br>5<br>2<br>2 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>4<br>1 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>5<br>2 | 0<br>2<br>1<br>8<br>1 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>9<br>2 | 0<br>2<br>2<br>0<br>1 | 0<br>2<br>2<br>0<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 |    |     |  |
| Bile Duct, Hyperplasia                            |                       | 1                     | 1                     |                       | 2                     | 2                     |                       | 2                     | 3                     |                       |                       | 2                     |                       | 2                     | 2                     |                       |                       |                       |                       |                       | 2                     |                       |                       | 21 | 2.0 |  |
| Caudate Lobe, Developmental Malformation          |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |     |  |
| Centrilobular, Degeneration                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  | 2.0 |  |
| Left Lateral Lobe, Developmental Malformation     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 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                                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       | 1  |     |  |
| Polyarteritis                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  | 2.0 |  |
| Acinar Cell, Atrophy                              |                       |                       |                       |                       |                       | 3                     |                       | 2                     |                       | 2                     |                       | 2                     |                       |                       |                       |                       |                       |                       | 1                     |                       | 2                     |                       |                       | 15 | 2.0 |  |
| Acinar Cell, Hyperplasia                          |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 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                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4  | 3.0 |  |
| Stomach, Glandular                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 47 |     |  |
| Inflammation                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2  | 2.5 |  |

**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  
 A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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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<br>MALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>6<br>8<br>0      | 0<br>7<br>1<br>8      | 0<br>6<br>7<br>3      | 0<br>6<br>9<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>4<br>4      | 0<br>6<br>3<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>1      | 0<br>7<br>3<br>8      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>7      |                       | 0<br>6<br>0<br>6      | 0<br>7<br>4<br>4      |
| ANIMAL ID   | 0<br>1<br>2<br>3<br>2 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>1<br>2 | 0<br>1<br>5<br>2<br>1 | 0<br>1<br>5<br>2<br>1 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>3<br>4 | 0<br>1<br>5<br>3<br>1 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>5<br>1 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>9<br>2 | 0<br>2<br>2<br>0<br>1 | 0<br>2<br>2<br>0<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 |
| 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                     |
| <b>ENDOCRINE SYSTEM</b>                           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 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                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |
| Pars Distalis, Hyperplasia                        |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 3.0                 |
| Thyroid Gland                                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 47                    |
| C-cell, Hyperplasia                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 1.5                 |

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

TDMS No. 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<br>MALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>6<br>8<br>0      | 0<br>7<br>1<br>8      | 0<br>6<br>7<br>3      | 0<br>6<br>9<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>4<br>4      | 0<br>6<br>3<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>1      | 0<br>7<br>3<br>8      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>7      |                       | 0<br>6<br>0<br>6      | 0<br>7<br>4<br>4      |                       |
| ANIMAL ID   | 0<br>1<br>2<br>3<br>2 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>1<br>2 | 0<br>1<br>5<br>1<br>2 | 0<br>1<br>5<br>2<br>2 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>4<br>1 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>5<br>1 | 0<br>2<br>1<br>8<br>1 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>2 |

Follicle, Cyst

X

3

**GENERAL BODY SYSTEM**

Tissue NOS

+

1

**GENITAL SYSTEM**

Coagulating Gland

1

Epididymis

Atrophy

Exfoliated Germ Cell

Hypospermia

Serosa, Cyst

Preputial Gland

Atrophy

Inflammation

Duct, Ectasia

Glandular, Hyperplasia

Prostate

Inflammation

Seminal Vesicle

Atrophy

Decreased Secretory Fluid

Lumen, Distended

Testes

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

+ .. Tissue 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<br>MALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>6<br>8<br>0      | 0<br>7<br>1<br>8      | 0<br>6<br>7<br>3      | 0<br>6<br>9<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>1      | 0<br>7<br>3<br>8      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>7      | 0<br>6<br>0<br>6      |                       | 0<br>7<br>4<br>4      |
| ANIMAL ID   | 0<br>1<br>2<br>3<br>2 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>1<br>2 | 0<br>1<br>5<br>2<br>1 | 0<br>1<br>5<br>2<br>2 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>3<br>4 | 0<br>1<br>5<br>3<br>1 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>5<br>1 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>9<br>1 | 0<br>2<br>2<br>0<br>1 | 0<br>2<br>2<br>0<br>2 | 0<br>2<br>2<br>0<br>1 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 |

|                                |   |  |  |  |   |  |   |  |   |  |   |  |   |  |  |  |   |  |  |   |  |  |    |     |
|--------------------------------|---|--|--|--|---|--|---|--|---|--|---|--|---|--|--|--|---|--|--|---|--|--|----|-----|
| 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  
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 1) Minimal 3) Moderate  
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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<br>MALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>6<br>8<br>0      | 0<br>7<br>1<br>8      | 0<br>6<br>7<br>3      | 0<br>6<br>9<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>4<br>4      | 0<br>6<br>3<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>1      | 0<br>7<br>3<br>8      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>7      |                       | 0<br>6<br>0<br>6      | 0<br>7<br>4<br>4      |
| ANIMAL ID   | 0<br>1<br>2<br>3<br>2 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>1<br>2 | 0<br>1<br>5<br>1<br>2 | 0<br>1<br>5<br>2<br>2 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>4<br>1 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>5<br>1 | 0<br>2<br>1<br>8<br>1 | 0<br>2<br>1<br>8<br>1 | 0<br>2<br>1<br>9<br>2 | 0<br>2<br>2<br>0<br>1 | 0<br>2<br>2<br>0<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 |
| 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                     |                       | 40 2.2                |
| <b>INTEGUMENTARY SYSTEM</b>                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Mammary Gland                                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | 43                    |
| Galactocele                                       |                       | 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                 |
| <b>MUSCULOSKELETAL SYSTEM</b>                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Bone, Femur                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
| Skeletal Muscle                                   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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TDMS No. 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<br>MALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>6<br>8<br>0      | 0<br>7<br>1<br>8      | 0<br>6<br>7<br>3      | 0<br>6<br>9<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>1      | 0<br>7<br>3<br>8      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>7      | 0<br>6<br>0<br>6      |                       | 0<br>7<br>4<br>4      |
| ANIMAL ID   | 0<br>1<br>2<br>3<br>2 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>1<br>2 | 0<br>1<br>5<br>1<br>2 | 0<br>1<br>5<br>1<br>2 | 0<br>1<br>5<br>2<br>2 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>3<br>4 | 0<br>1<br>5<br>3<br>1 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>5<br>1 | 0<br>2<br>1<br>8<br>1 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>1 |

**NERVOUS SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Brain, Brain Stem<br>Hemorrhage                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     | 1 1.0 |
| Hypothalamus, Compression<br>Ventricle, Dilatation        | 2 | 2 |   |   | 3 | 2 |   |   |   |   | 2 | 2 | 2 |   |   |   |   | 3 | 3 |   |   |   | 13 2.3 | 1 2.0 |
| Brain, Cerebellum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     |       |
| Brain, Cerebrum<br>Hydrocephalus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     | 1 1.0 |
| Perivascular, Infiltration Cellular, Mixed Cell,<br>Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 1 1.0  |       |
| Ventricle, Dilatation                                     |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   | 2 | 2 |   |   | 6 2.0  |       |
| Peripheral Nerve, Sciatic<br>Axon, Degeneration           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     | 7 1.0 |
| Spinal Cord, Cervical<br>Hemorrhage                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     | 1 1.0 |
| Axon, Degeneration  |   | 1 |   |   |   | 1 | 1 | 1 |   | 1 | 1 | 1 | 1 |   | 1 | 1 | 1 | 1 |   | 1 |   | 1 | 20 1.0 |       |
| Nerve, Degeneration                                       |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 3 1.0  |       |
| Spinal Cord, Lumbar<br>Axon, Degeneration                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     | 5 1.0 |
| Nerve, Degeneration                                       | 1 | 1 |   |   |   | 1 |   |   |   | 1 |   |   | 1 | 1 |   | 1 | 1 |   | 1 |   | 1 | 1 | 20 1.0 |       |
| Spinal Cord, Thoracic<br>Hemorrhage, Focal                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     | 1 1.0 |
| Axon, Degeneration  | 1 |   |   | 1 |   | 1 |   | 1 | 1 |   | 1 | 1 |   | 1 | 1 | 1 |   |   |   |   |   | 1 | 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  
 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<br>MALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>6<br>8<br>0      | 0<br>7<br>1<br>8      | 0<br>6<br>7<br>3      | 0<br>6<br>9<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>7<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>1      | 0<br>7<br>3<br>8      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>7      |                       | 0<br>6<br>0<br>6      | 0<br>7<br>4<br>4      |
| ANIMAL ID   | 0<br>1<br>2<br>3<br>2 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>1<br>2 | 0<br>1<br>5<br>1<br>2 | 0<br>1<br>5<br>1<br>2 | 0<br>1<br>5<br>2<br>2 | 0<br>1<br>5<br>3<br>2 | 0<br>1<br>5<br>3<br>4 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>4<br>1 | 0<br>1<br>5<br>4<br>2 | 0<br>1<br>5<br>5<br>1 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>8<br>1 | 0<br>2<br>1<br>9<br>2 | 0<br>2<br>2<br>0<br>1 | 0<br>2<br>2<br>0<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>2<br>1<br>2 |

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  
 + .. Tissue 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<br>MALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>6<br>8<br>0      | 0<br>7<br>1<br>8      | 0<br>6<br>7<br>3      | 0<br>6<br>9<br>7      | 0<br>7<br>3<br>7      | 0<br>7<br>4<br>4      | 0<br>6<br>3<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>1      | 0<br>7<br>3<br>8      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>7      |                       | 0<br>6<br>0<br>6      | 0<br>7<br>4<br>4      |                       |
| ANIMAL ID   | 0<br>1<br>2<br>3<br>2 | 0<br>1<br>2<br>4<br>1 | 0<br>1<br>2<br>4<br>2 | 0<br>1<br>2<br>5<br>1 | 0<br>1<br>2<br>5<br>2 | 0<br>1<br>1<br>1<br>2 | 0<br>1<br>1<br>1<br>1 | 0<br>1<br>1<br>2<br>2 | 0<br>1<br>1<br>2<br>2 | 0<br>1<br>1<br>3<br>1 | 0<br>1<br>1<br>3<br>2 | 0<br>1<br>1<br>4<br>1 | 0<br>1<br>1<br>4<br>2 | 0<br>1<br>1<br>5<br>2 | 0<br>2<br>1<br>8<br>1 | 0<br>2<br>1<br>8<br>2 | 0<br>2<br>1<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 |
| Bulbourethral Gland, Dilatation                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |
| Urinary Bladder Dilatation                        | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48<br>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  
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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<br>MALE<br>0.0875 ACRYL | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|
|  | 0744        | 0628 | 0744 | 0744 | 0663 | 0667 | 0573 | 0764 | 0673 | 0676 | 0770 | 0676 | 0752 | 0774 | 0777 | 0777 | 0777 | 0444 | 0224 | 0556 |           |                    | 0663 | 0557 | 0775 | 0566 |
|  | 0011        | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011      | 0011               | 0011 | 0011 | 0011 | 0011 |

**ALIMENTARY SYSTEM**

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

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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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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<br>MALE<br>0.0875 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID        | males<br>(cont...) |                  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|
|  | 0<br>7<br>4<br>4 | 0<br>6<br>2<br>8 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>3<br>7 | 0<br>6<br>3<br>7 | 0<br>5<br>3<br>2 | 0<br>7<br>4<br>4 | 0<br>6<br>0<br>9 | 0<br>7<br>6<br>9 | 0<br>6<br>7<br>0 | 0<br>7<br>5<br>2 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>4<br>7<br>4 | 0<br>2<br>4<br>6 | 0<br>5<br>7<br>1 | 0<br>6<br>3<br>3 | 0<br>5<br>6<br>4 |                  |                    | 0<br>7<br>1<br>8 |
|  | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>3 | 0<br>0<br>1<br>3 | 0<br>0<br>1<br>4 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>5 | 0<br>0<br>1<br>5 | 0<br>0<br>1<br>6 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>8 | 0<br>0<br>1<br>8 | 0<br>0<br>0<br>9 | 0<br>0<br>0<br>9 | 0<br>0<br>0<br>6 | 0<br>0<br>0<br>6 | 0<br>0<br>0<br>7 | 0<br>0<br>0<br>7 | 0<br>0<br>0<br>8   | 0<br>0<br>0<br>8 |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oval Cell, Hyperplasia            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fat, Necrosis                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Polyarteritis                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Acinar Cell, Atrophy              | 2 | 3 | 2 | 2 | 1 | 2 | 2 |   |   | 1 | 1 | 2 | 1 |   |   |   |   |   |   |   |   |   |   |
| 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:  
 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<br>MALE<br>0.0875 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                   |                   |                   |                   |                   |                   |                   | ANIMAL ID         | males<br>(cont...) |                   |                   |                  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|------------------|
|  | 0<br>7<br>4<br>4 | 0<br>6<br>2<br>8 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>3<br>7 | 0<br>6<br>3<br>7 | 0<br>5<br>3<br>2 | 0<br>7<br>4<br>4 | 0<br>6<br>0<br>9 | 0<br>7<br>3<br>9 | 0<br>6<br>7<br>0 | 0<br>7<br>2<br>5 | 0<br>5<br>2<br>2 | 0<br>7<br>4<br>4  | 0<br>7<br>4<br>4  | 0<br>7<br>4<br>4  | 0<br>4<br>7<br>4  | 0<br>2<br>4<br>6  | 0<br>5<br>7<br>1  | 0<br>6<br>3<br>3  |                   |                    | 0<br>5<br>6<br>4  | 0<br>7<br>1<br>8  | 0<br>5<br>1<br>6 |
|  | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>3 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>4 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>5 | 0<br>0<br>1<br>6 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>8 | 0<br>0<br>1<br>9 | 0<br>0<br>1<br>10 | 0<br>0<br>1<br>11 | 0<br>0<br>1<br>12 | 0<br>0<br>1<br>13 | 0<br>0<br>1<br>14 | 0<br>0<br>1<br>15 | 0<br>0<br>1<br>16 | 0<br>0<br>1<br>17 | 0<br>0<br>1<br>18  | 0<br>0<br>1<br>19 | 0<br>0<br>1<br>20 |                  |

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

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<br>MALE<br>0.0875 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID        | males<br>(cont...) |                  |                  |                  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|
|  | 0<br>7<br>4<br>4 | 0<br>6<br>2<br>8 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>3<br>7 | 0<br>6<br>3<br>7 | 0<br>5<br>3<br>2 | 0<br>7<br>4<br>4 | 0<br>6<br>0<br>9 | 0<br>7<br>3<br>9 | 0<br>6<br>7<br>0 | 0<br>7<br>2<br>5 | 0<br>5<br>2<br>2 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>4<br>7<br>4 | 0<br>2<br>4<br>6 | 0<br>5<br>7<br>1 | 0<br>6<br>3<br>3 |                  |                    | 0<br>5<br>6<br>4 | 0<br>7<br>1<br>8 | 0<br>5<br>1<br>6 |
|  | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>3 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>4 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>5 | 0<br>0<br>1<br>5 | 0<br>0<br>1<br>6 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2   | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 |

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 |

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 X .. Lesion present  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 20313 - 05  
 Test Type: CHRONIC  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Acrylamide  
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| FISCHER 344 RATS-NCTR RATS<br>MALE<br>0.0875 ACRYL | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...)       |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------------|------|
|  | 0744        | 0628 | 0744 | 0744 | 0637 | 0667 | 0572 | 0764 | 0679 | 0769 | 0670 | 0752 | 0774 | 0774 | 0774 | 0774 | 0447 | 0244 | 0573 | 0636 | 0564 | 0718 | 0566 | 0756 |           |                          | 0756 |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 001111111111111111111111 |      |

Interstitial Cell, Hyperplasia  
 Seminiferous Tubule, Atrophy

**HEMATOPOIETIC SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Bone Marrow                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |   |
| Atrophy                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 3 |
| Hyperplasia                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 2 |
| Lymph Node                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
| Hyperplasia, Lymphoid                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
| Axillary, Hemorrhage                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
| Lumbar, Degeneration, Cystic           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
| Mediastinal, Degeneration, Cystic      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
| Mediastinal, Hemorrhage                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 3 |
| Medulla, Pancreatic, Sinus, Dilatation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
| Pancreatic, Hyperplasia, Lymphoid      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
| Renal, Degeneration, Cystic            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
| Renal, Hyperplasia, Lymphoid           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 2 |
| Lymph Node, Mandibular                 | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |   |
| Degeneration, Cystic                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 2 |
| Hemorrhage                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 4 |
| Hyperplasia, Lymphoid                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 3 |
| Infiltration Cellular, Plasma Cell     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 2 |
| Lymph Node, Mesenteric                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |   |
| Degeneration, Cystic                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
| Hemorrhage                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
| Hyperplasia, Lymphoid                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 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<br>MALE<br>0.0875 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID        | males<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
|  | 0<br>7<br>4<br>4 | 0<br>6<br>2<br>8 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>3<br>7 | 0<br>6<br>3<br>7 | 0<br>5<br>3<br>2 | 0<br>7<br>4<br>4 | 0<br>6<br>0<br>9 | 0<br>7<br>3<br>9 | 0<br>6<br>2<br>5 | 0<br>7<br>2<br>2 | 0<br>5<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>4<br>7<br>4 | 0<br>2<br>4<br>6 | 0<br>5<br>7<br>1 | 0<br>6<br>3<br>3 | 0<br>5<br>6<br>4 | 0<br>7<br>1<br>8 | 0<br>5<br>1<br>6 | 0<br>6<br>1<br>6 |                  |                    |
|  | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>3 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>4 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>5 | 0<br>0<br>1<br>6 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>9 | 0<br>0<br>1<br>9 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>8 | 0<br>0<br>1<br>8 | 0<br>0<br>1<br>9 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>6 | 0<br>0<br>1<br>6 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>1 |                    |

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

**INTEGUMENTARY SYSTEM**

|                           |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Mammary Gland             | + + + + + + + + + + + + + + + + + + + M M + M M |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Galactocele               | 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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 + .. Tissue examined microscopically  
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 1) Minimal 3) Moderate  
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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<br>MALE<br>0.0875 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID        | males<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
|  | 0<br>7<br>4<br>4 | 0<br>6<br>2<br>8 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>3<br>7 | 0<br>6<br>3<br>7 | 0<br>5<br>3<br>2 | 0<br>7<br>4<br>4 | 0<br>6<br>0<br>9 | 0<br>7<br>6<br>9 | 0<br>6<br>7<br>0 | 0<br>7<br>2<br>5 | 0<br>5<br>2<br>2 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>4<br>7<br>4 | 0<br>2<br>4<br>6 | 0<br>5<br>7<br>1 | 0<br>6<br>3<br>3 | 0<br>5<br>6<br>4 | 0<br>7<br>1<br>8 | 0<br>5<br>1<br>6 | 0<br>6<br>1<br>6 |                  |                    |
|  | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>3 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>4 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>5 | 0<br>0<br>1<br>6 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>9 | 0<br>0<br>1<br>9 | 0<br>0<br>1<br>9 | 0<br>0<br>1<br>9 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>8 | 0<br>0<br>1<br>8 | 0<br>0<br>1<br>9 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>6 | 0<br>0<br>1<br>6 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>7 | 0<br>0<br>1<br>2 |                    |

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone, Femur<br>Fibrous Osteodystrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |
| Skeletal Muscle                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**NERVOUS SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| Brain, Brain Stem<br>Hemorrhage<br>Hypothalamus, Compression<br>Ventricle, Dilatation      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4<br>3 3<br>3 2<br>2 |
| Brain, Cerebellum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |
| Brain, Cerebrum<br>Hydrocephalus<br>Necrosis, Focal<br>Thrombosis<br>Ventricle, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2<br>2               |
| Peripheral Nerve, Sciatic<br>Axon, Degeneration  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1                    |
| Spinal Cord, Cervical<br>Axon, Degeneration<br>Nerve, Degeneration                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1<br>1 1<br>1 1      |
| Spinal Cord, Lumbar<br>Gliosis, Focal<br>Axon, Degeneration                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1<br>1               |

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TDMS No. 20313 - 05  
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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

| FISCHER 344 RATS-NCTR RATS<br>MALE<br>0.0875 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
|  | 0542        | 0744  | 0331  | 0739  | 0636  | 0360  | 0649  | 0726  | 0772  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0666  | 0555  | 0664  |          | 0777  |
| ANIMAL ID  | 01082       | 01091 | 01112 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111    | 01111 |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     |
|  | 1           | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1        | 1     |
|  | 0           | 0     | 0     | 0     | 1     | 1     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 7     | 7     | 0     | 0     | 0     | 0     | 0     | 0        | 0     |
|  | 8           | 9     | 9     | 0     | 0     | 6     | 6     | 7     | 7     | 8     | 8     | 9     | 9     | 0     | 0     | 6     | 6     | 7     | 7     | 8     | 8        | 9     |
|  | 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  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |       |
| Intestine Large, Cecum                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |       |
| Intestine Large, Colon                                 | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |       |
| Intestine Large, Rectum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |       |
| Intestine Small, Duodenum                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |       |
| Intestine Small, Ileum<br>Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | 1 3.0 |
| Intestine Small, Jejunum                               | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |       |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |       |
| Degeneration, Cystic                                   |   | 2 |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   | 4  | 1.8   |
| Eosinophilic Focus                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |       |
| Eosinophilic Focus, Multiple                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | 1  |       |
| Granuloma  |   |   | 1 |   |   | 2 |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   | 5  | 1.4   |
| Hematopoietic Cell Proliferation                       |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   | 2 |   |   |   |   |   |   | 3  | 2.3   |
| Hepatodiaphragmatic Nodule                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |       |
| Infiltration Cellular, Lymphocyte                      |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   | 1  | 1.0   |
| Vacuolization Cytoplasmic                              |   |   |   |   |   |   |   | 3 | 3 |   |   |   |   |   |   |   |   | 3 | 3 |   |   |   | 6  | 3.0   |
| Bile Duct, Hyperplasia                                 | 1 | 1 |   |   | 1 | 2 |   | 3 | 3 |   |   |   |   | 2 |   |   | 1 |   |   |   |   |   | 19 | 1.7   |
| Centrilobular, Necrosis                                |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0   |
| Hepatocyte, Hyperplasia                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   | 2  | 3.0   |

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TDMS No. 20313 - 05  
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**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<br>MALE<br>0.0875 ACRYL | DAY ON TEST                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|--|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>5<br>4<br>2                            | 0<br>7<br>4<br>4      | 0<br>3<br>3<br>1      | 0<br>7<br>3<br>9      | 0<br>6<br>0<br>6      | 0<br>3<br>6<br>4      | 0<br>6<br>2<br>9      | 0<br>7<br>2<br>6      | 0<br>7<br>1<br>5      | 0<br>7<br>1<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>9      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>2      | 0<br>6<br>4<br>4      | 0<br>5<br>5<br>1      | 0<br>6<br>5<br>4      | 0<br>4<br>5<br>9      | 0<br>7<br>0<br>8      |                       | 0<br>6<br>9<br>5      |
| ANIMAL ID  | 0<br>1<br>0<br>8<br>2                       | 0<br>1<br>0<br>9<br>1 | 0<br>1<br>0<br>9<br>2 | 0<br>1<br>0<br>0<br>1 | 0<br>1<br>1<br>0<br>6 | 0<br>1<br>6<br>6<br>2 | 0<br>1<br>6<br>6<br>1 | 0<br>1<br>6<br>7<br>2 | 0<br>1<br>6<br>7<br>8 | 0<br>1<br>6<br>8<br>1 | 0<br>1<br>6<br>8<br>2 | 0<br>1<br>6<br>9<br>9 | 0<br>1<br>7<br>9<br>0 | 0<br>1<br>7<br>0<br>6 | 0<br>2<br>2<br>0<br>2 | 0<br>2<br>2<br>0<br>6 | 0<br>2<br>2<br>0<br>7 | 0<br>2<br>2<br>0<br>8 | 0<br>2<br>2<br>0<br>1 | 0<br>2<br>2<br>0<br>2 | 0<br>2<br>2<br>0<br>1 | 0<br>2<br>2<br>0<br>2 |
| Oval Cell, Hyperplasia                             | 4   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 4.0                 |                       |
| Mesentery  |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     |                       |
| Fat, Necrosis                                      | + + +                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 3.3                 |                       |
| Pancreas   | + |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48                    |                       |
| Infiltration Cellular, Lymphocyte                  |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 1.0                 |                       |
| Polyarteritis                                      |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 2.3                 |                       |
| Acinar Cell, Atrophy                               | 2 3 2 3 3                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 15 2.0                |                       |
| Salivary Glands                                    | + |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48                    |                       |
| Stomach, Forestomach                               | + |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48                    |                       |
| Edema  |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 3.0                 |                       |
| Hyperplasia  |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 6 2.5                 |                       |
| Inflammation                                       |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 3.0                 |                       |
| Ulcer  |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 2.7                 |                       |
| Stomach, Glandular                                 | + |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48                    |                       |
| Edema  |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 3.5                 |                       |
| Erosion  |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |                       |
| Inflammation                                       |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 2.5                 |                       |
| Ulcer  | 2   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |                       |
| Tongue   |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |
| <b>CARDIOVASCULAR SYSTEM</b>                       |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 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  
 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<br>MALE<br>0.0875 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>5<br>4<br>2      | 0<br>7<br>4<br>4      | 0<br>3<br>3<br>1      | 0<br>7<br>3<br>9      | 0<br>6<br>0<br>6      | 0<br>3<br>6<br>0      | 0<br>6<br>4<br>9      | 0<br>7<br>2<br>6      | 0<br>7<br>1<br>5      | 0<br>7<br>1<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>9      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>2      | 0<br>6<br>4<br>4      | 0<br>5<br>5<br>1      | 0<br>6<br>5<br>4      | 0<br>4<br>5<br>9      | 0<br>7<br>0<br>8      |                       | 0<br>6<br>9<br>5      |
| ANIMAL ID  | 0<br>1<br>0<br>8<br>2 | 0<br>1<br>0<br>9<br>1 | 0<br>1<br>0<br>9<br>2 | 0<br>1<br>0<br>0<br>1 | 0<br>1<br>1<br>6<br>1 | 0<br>1<br>6<br>6<br>2 | 0<br>1<br>6<br>6<br>1 | 0<br>1<br>6<br>7<br>2 | 0<br>1<br>6<br>7<br>1 | 0<br>1<br>6<br>8<br>2 | 0<br>1<br>6<br>8<br>1 | 0<br>1<br>6<br>9<br>2 | 0<br>1<br>7<br>9<br>2 | 0<br>1<br>7<br>0<br>1 | 0<br>2<br>0<br>6<br>2 | 0<br>2<br>0<br>7<br>1 | 0<br>2<br>0<br>8<br>2 | 0<br>2<br>0<br>8<br>1 | 0<br>2<br>0<br>8<br>2 | 0<br>2<br>0<br>9<br>1 | 0<br>2<br>0<br>9<br>2 | 0<br>2<br>0<br>9<br>2 |
| Heart  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
| Cardiomyopathy                                     | 3                     | 2                     | 2                     |                       | 2                     | 1                     | 2                     | 2                     | 2                     | 2                     |                       | 2                     | 2                     | 2                     | 2                     | 2                     |                       | 3                     | 2                     | 2                     |                       | 37 2.0                |
| Atrium, Thrombosis                                 |                       |                       |                       |                       |                       |                       | X                     |                       | X                     | X                     | X                     |                       |                       | X                     | X                     |                       |                       |                       |                       | X                     |                       | 13                    |
| <b>ENDOCRINE SYSTEM</b>                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 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                     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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  
 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<br>MALE<br>0.0875 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             |                       |                       |                  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
|  | 0<br>5<br>4<br>2      | 0<br>7<br>4<br>4      | 0<br>3<br>3<br>1      | 0<br>7<br>3<br>9      | 0<br>6<br>0<br>6      | 0<br>3<br>6<br>4      | 0<br>6<br>2<br>9      | 0<br>7<br>7<br>6      | 0<br>7<br>7<br>5      | 0<br>7<br>7<br>0      | 0<br>7<br>7<br>4      | 0<br>7<br>7<br>4      | 0<br>7<br>7<br>4      | 0<br>7<br>7<br>9      | 0<br>7<br>7<br>4      | 0<br>7<br>7<br>4      | 0<br>6<br>0<br>4      | 0<br>5<br>4<br>1      | 0<br>6<br>5<br>4      | 0<br>4<br>5<br>9      |                       |                       | 0<br>7<br>0<br>8      | 0<br>6<br>9<br>5 |
|  | 0<br>1<br>0<br>8<br>2 | 0<br>1<br>0<br>9<br>1 | 0<br>1<br>0<br>9<br>2 | 0<br>1<br>0<br>0<br>1 | 0<br>1<br>1<br>0<br>6 | 0<br>1<br>6<br>6<br>2 | 0<br>1<br>6<br>6<br>1 | 0<br>1<br>6<br>6<br>7 | 0<br>1<br>6<br>6<br>8 | 0<br>1<br>6<br>6<br>7 | 0<br>1<br>6<br>6<br>8 | 0<br>1<br>6<br>6<br>9 | 0<br>1<br>6<br>6<br>9 | 0<br>1<br>7<br>0<br>0 | 0<br>1<br>7<br>6<br>2 | 0<br>1<br>7<br>6<br>1 | 0<br>2<br>0<br>6<br>2 | 0<br>2<br>0<br>7<br>1 | 0<br>2<br>0<br>8<br>2 | 0<br>2<br>0<br>8<br>1 | 0<br>2<br>0<br>9<br>2 | 0<br>2<br>0<br>9<br>1 | 0<br>2<br>0<br>9<br>2 | <b>* TOTALS</b>  |

Follicular Cell, Hyperplasia

1

2 1.0

**GENERAL BODY SYSTEM**

Tissue NOS

1

**GENITAL SYSTEM**

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

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

+ .. Tissue 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<br>MALE<br>0.0875 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>5<br>4<br>2      | 0<br>7<br>4<br>4      | 0<br>3<br>3<br>1      | 0<br>7<br>3<br>9      | 0<br>6<br>0<br>6      | 0<br>3<br>6<br>0      | 0<br>6<br>4<br>9      | 0<br>7<br>2<br>6      | 0<br>7<br>1<br>5      | 0<br>7<br>1<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>9      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>2      | 0<br>6<br>4<br>4      | 0<br>5<br>5<br>1      | 0<br>6<br>5<br>4      | 0<br>4<br>5<br>9      | 0<br>7<br>0<br>8      |                       | 0<br>6<br>9<br>5      |
| ANIMAL ID  | 0<br>1<br>0<br>8<br>2 | 0<br>1<br>0<br>9<br>1 | 0<br>1<br>0<br>9<br>2 | 0<br>1<br>0<br>0<br>1 | 0<br>1<br>1<br>0<br>6 | 0<br>1<br>6<br>6<br>1 | 0<br>1<br>6<br>6<br>7 | 0<br>1<br>6<br>6<br>2 | 0<br>1<br>6<br>7<br>2 | 0<br>1<br>6<br>8<br>1 | 0<br>1<br>6<br>8<br>2 | 0<br>1<br>6<br>9<br>2 | 0<br>1<br>7<br>9<br>0 | 0<br>1<br>7<br>9<br>1 | 0<br>2<br>0<br>6<br>2 | 0<br>2<br>0<br>7<br>2 | 0<br>2<br>0<br>8<br>1 | 0<br>2<br>0<br>8<br>2 | 0<br>2<br>0<br>8<br>2 | 0<br>2<br>0<br>9<br>1 | 0<br>2<br>0<br>9<br>2 | 0<br>2<br>0<br>9<br>2 |

|                                |   |   |  |  |  |   |   |   |  |  |   |   |  |  |  |  |  |  |  |  |  |   |    |     |
|--------------------------------|---|---|--|--|--|---|---|---|--|--|---|---|--|--|--|--|--|--|--|--|--|---|----|-----|
| 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 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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<br>MALE<br>0.0875 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |          |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
|  | 0542        | 0744  | 0331  | 0739  | 0630  | 0366  | 0649  | 0726  | 0775  | 0770  | 0774  | 0774  | 0774  | 0779  | 0774  | 0774  | 0664  | 0554  | 0659  | 0450  |          | 0708     |
| ANIMAL ID  | 01082       | 01191 | 01111 | 01111 | 01111 | 01166 | 01166 | 01166 | 01166 | 01177 | 01188 | 01188 | 01199 | 01200 | 01200 | 01200 | 01200 | 01200 | 01200 | 01200 | 01200    | 01200    |
| 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 |
| <b>INTEGUMENTARY SYSTEM</b>                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |          |
| Mammary Gland                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 44       |
| Galactocele  |             | 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    |
| <b>MUSCULOSKELETAL SYSTEM</b>                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |          |
| Bone   |             |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1        |
| Vertebra, Fracture                                 |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1        |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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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<br>MALE<br>0.0875 ACRYL   | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
|  | 0<br>5<br>4<br>2      | 0<br>7<br>4<br>4      | 0<br>3<br>3<br>1      | 0<br>7<br>3<br>9      | 0<br>6<br>0<br>6      | 0<br>3<br>6<br>0      | 0<br>6<br>4<br>9      | 0<br>7<br>2<br>6      | 0<br>7<br>1<br>5      | 0<br>7<br>1<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>9      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>2      | 0<br>6<br>4<br>4      | 0<br>5<br>5<br>1      | 0<br>6<br>5<br>4      | 0<br>4<br>5<br>9      | 0<br>7<br>0<br>8      |                       | 0<br>6<br>9<br>5      |  |
| ANIMAL ID  | 0<br>1<br>0<br>8<br>2 | 0<br>1<br>0<br>9<br>1 | 0<br>1<br>0<br>9<br>2 | 0<br>1<br>0<br>0<br>1 | 0<br>1<br>1<br>6<br>6 | 0<br>1<br>6<br>6<br>2 | 0<br>1<br>6<br>6<br>7 | 0<br>1<br>6<br>6<br>1 | 0<br>1<br>6<br>7<br>2 | 0<br>1<br>6<br>7<br>8 | 0<br>1<br>6<br>8<br>1 | 0<br>1<br>6<br>8<br>2 | 0<br>1<br>7<br>9<br>0 | 0<br>1<br>7<br>9<br>1 | 0<br>2<br>0<br>0<br>6 | 0<br>2<br>0<br>6<br>7 | 0<br>2<br>0<br>7<br>1 | 0<br>2<br>0<br>8<br>2 | 0<br>2<br>0<br>8<br>1 | 0<br>2<br>0<br>8<br>2 | 0<br>2<br>0<br>9<br>1 | 0<br>2<br>0<br>9<br>2 |  |
| Bone, Femur<br>Fibrous Osteodystrophy  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48<br>2 2.5                            |
| Skeletal Muscle  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                                     |
| <b>NERVOUS SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Brain, Brain Stem<br>Hemorrhage<br>Hypothalamus, Compression<br>Ventricle, Dilatation      | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48<br>1 4.0<br>13 2.5<br>1 2.0         |
| Brain, Cerebellum  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                                     |
| Brain, Cerebrum<br>Hydrocephalus<br>Necrosis, Focal<br>Thrombosis<br>Ventricle, Dilatation | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48<br>2 2.0<br>1 4.0<br>1 2.0<br>5 2.0 |
| Peripheral Nerve, Sciatic<br>Axon, Degeneration  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48<br>7 1.0                            |
| Spinal Cord, Cervical<br>Axon, Degeneration<br>Nerve, Degeneration                         | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48<br>22 1.0<br>1 1.0                  |
| Spinal Cord, Lumbar<br>Gliosis, Focal<br>Axon, Degeneration                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48<br>1 1.0<br>4 1.0                   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 1) Minimal 3) Moderate  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Acrylamide  
 CAS Number: 79-06-1

Date Report Requested: 01/15/2010  
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS<br>MALE<br>0.0875 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
|  | 0<br>5<br>4<br>2      | 0<br>7<br>4<br>4      | 0<br>3<br>3<br>1      | 0<br>7<br>3<br>9      | 0<br>6<br>0<br>6      | 0<br>3<br>6<br>4      | 0<br>6<br>2<br>9      | 0<br>7<br>6<br>6      | 0<br>7<br>2<br>5      | 0<br>7<br>1<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>9      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>2      | 0<br>6<br>4<br>4      | 0<br>5<br>5<br>1      | 0<br>6<br>5<br>4      | 0<br>4<br>5<br>9      | 0<br>7<br>0<br>8      |                       | 0<br>6<br>9<br>5 |
| ANIMAL ID  | 0<br>1<br>0<br>8<br>2 | 0<br>1<br>0<br>9<br>1 | 0<br>1<br>0<br>9<br>2 | 0<br>1<br>0<br>0<br>1 | 0<br>1<br>1<br>6<br>2 | 0<br>1<br>6<br>6<br>1 | 0<br>1<br>6<br>7<br>2 | 0<br>1<br>6<br>7<br>1 | 0<br>1<br>6<br>7<br>2 | 0<br>1<br>6<br>8<br>1 | 0<br>1<br>6<br>8<br>2 | 0<br>1<br>6<br>9<br>1 | 0<br>1<br>7<br>9<br>2 | 0<br>1<br>7<br>0<br>1 | 0<br>2<br>0<br>6<br>2 | 0<br>2<br>0<br>7<br>1 | 0<br>2<br>0<br>7<br>2 | 0<br>2<br>0<br>8<br>1 | 0<br>2<br>0<br>8<br>2 | 0<br>2<br>0<br>9<br>1 | 0<br>2<br>0<br>9<br>2 |                  |
| 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                     | 18 1.0           |
| Nerve, Degeneration                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 1.0            |
| <b>RESPIRATORY SYSTEM</b>                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |
| 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            |
| <b>SPECIAL SENSES SYSTEM</b>                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |
| 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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 + .. Tissue examined microscopically  
 X .. Lesion present  
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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<br>MALE<br>0.0875 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
|  | 0542        | 0744  | 0331  | 0739  | 0636  | 0360  | 0669  | 0726  | 0772  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0676  | 0565  | 0664  |          | 0447  |
| ANIMAL ID  | 01082       | 01091 | 01112 | 01111 | 01111 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116 | 01116    | 01116 |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     |
|  | 1           | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1        | 1     |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     |
|  | 8           | 9     | 9     | 0     | 0     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6        | 6     |
|  | 2           | 1     | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     | 2        | 1     |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 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 |        |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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  
 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<br>MALE<br>CONTROL WATER | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0393        | 0696 | 0774 | 0774 | 0774 | 0774 | 0676 | 0777 | 0777 | 0777 | 0577 | 0776 | 0777 | 0577 | 0777 | 0774 | 0776 | 0777 | 0675 | 0775 | 0575 | 0576 | 0676 | 0676 |           |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 002661    |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 002662    |                    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 002663    |                    |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                 | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                              | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum<br>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 |   |   |   |   |   |   |   |   |   |   |   |   |   |

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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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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<br>MALE<br>CONTROL WATER | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | males<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
|   | 0<br>3<br>9<br>3      | 0<br>6<br>9<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>2<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>5<br>2      | 0<br>7<br>2<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>7<br>4<br>6      | 0<br>6<br>2<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>0      | 0<br>7<br>1<br>7      | 0<br>7<br>4<br>4      | 0<br>4<br>0<br>3      | 0<br>7<br>4<br>4      | 0<br>6<br>9<br>8      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>0      | 0<br>5<br>6<br>4      | 0<br>6<br>6<br>3      |                       |                    |
|   | 0<br>0<br>2<br>6<br>1 | 0<br>0<br>2<br>6<br>2 | 0<br>0<br>2<br>7<br>1 | 0<br>0<br>2<br>7<br>2 | 0<br>0<br>2<br>8<br>1 | 0<br>0<br>2<br>8<br>2 | 0<br>0<br>2<br>9<br>1 | 0<br>0<br>2<br>9<br>2 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>6<br>6<br>3 | 0<br>0<br>6<br>6<br>2 | 0<br>0<br>6<br>6<br>1 | 0<br>0<br>6<br>6<br>4 | 0<br>0<br>6<br>6<br>4 | 0<br>0<br>6<br>6<br>6 | 0<br>0<br>7<br>7<br>1 | 0<br>0<br>7<br>7<br>2 | 0<br>0<br>8<br>8<br>1 | 0<br>0<br>8<br>8<br>2 | 0<br>0<br>9<br>9<br>1 | 0<br>0<br>9<br>9<br>2 | 0<br>0<br>9<br>9<br>1 | 0<br>0<br>9<br>9<br>1 |                    |

Left Lateral Lobe, Developmental Malformation  
 Right Lateral Lobe, Developmental Malformation

X X X X

Mesentery  
 Accessory Spleen

+

Pancreas  
 Polyarteritis  
 Acinar Cell, Atrophy

A + + + + + + + + + + A + + + + + + + + + + + +  
 4  
 2 2 2 2 3 2

Salivary Glands  
 Infiltration Cellular, Plasma Cell

+ +

Stomach, Forestomach  
 Edema  
 Hyperplasia

A +

Stomach, Glandular  
 Edema

A + + + + + + + + + + + + + + + + + 3 + + + + +

Tongue  
 Hyperplasia

+ +

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart  
 Cardiomyopathy  
 Infarct

+  
 3 3 2 3 2 2 2 2 2 2 3 2 2 3 2 2 2 2 2 2 2 2 2

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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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<br>CONTROL WATER | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males (cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
|  | 0393        | 0696 | 0774 | 0772 | 0774 | 0774 | 0774 | 0652 | 0773 | 0774 | 0774 | 0574 | 0774 | 0674 | 0774 | 0577 | 0771 | 0774 | 0404 | 0794 | 0678 | 0774 | 0554 | 0556 | 0666 |           |                 |
|  | 0026        | 0022 | 0022 | 0022 | 0028 | 0028 | 0022 | 0026 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0019      | 0011            |

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  
 X .. Lesion present  
 I .. Insufficient tissue  
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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  
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 First Dose M/F: 05/23/05 / 05/23/05  
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS<br>MALE<br>CONTROL WATER | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|   | 0393        | 0696 | 0774 | 0772 | 0774 | 0774 | 0774 | 0662 | 0773 | 0774 | 0774 | 0554 | 0774 | 0664 | 0774 | 0557 | 0771 | 0774 | 0440 | 0774 | 0668 | 0774 | 0554 | 0556 | 0666 |           |                    |
|   | 0026        | 0022 | 0022 | 0022 | 0022 | 0028 | 0022 | 0022 | 0026 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066      |                    |

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  
 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males<br>(cont...) |   |
|---------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| FISCHER 344 RATS-NCTR RATS MALE |  | 3 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 7 | 4 | 7 | 6 | 7 | 5 | 5 |                    | 6 |
| CONTROL WATER                   |  | 9 | 9 | 4 | 2 | 4 | 4 | 4 | 5 | 2 | 4 | 4 | 4 | 4 | 2 | 4 | 7 | 1 | 4 | 0 | 4 | 9 | 4 | 4 | 6 |                    | 6 |
| ANIMAL ID                       |  | 3 | 6 | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 4 | 4 | 6 | 4 | 4 | 4 | 0 | 7 | 4 | 3 | 4 | 8 | 4 | 0 | 4 | 3                  |   |
| ANIMAL ID                       |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  |   |
| ANIMAL ID                       |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  |   |
| ANIMAL ID                       |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9                  |   |
| ANIMAL ID                       |  | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 1                  |   |
| ANIMAL ID                       |  | 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                  |   |

Seminiferous Tubule, Atrophy

3 4 4 4 3 4

**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 |
| Hemorrhage                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Hyperplasia, Lymphoid                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Infiltration Cellular, Plasma Cell           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Lymph Node, Mesenteric                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |

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

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<br>MALE<br>CONTROL WATER | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID | males<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|--------------------|
|   | 0<br>3<br>9<br>3      | 0<br>6<br>9<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>2<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>5<br>2      | 0<br>7<br>2<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>2<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>0      | 0<br>7<br>1<br>7      | 0<br>7<br>4<br>4      | 0<br>4<br>0<br>3      | 0<br>7<br>4<br>4      | 0<br>6<br>9<br>8      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>0      | 0<br>5<br>6<br>4      | 0<br>6<br>6<br>3      |           |                    |
|   | 0<br>0<br>2<br>6<br>1 | 0<br>0<br>2<br>6<br>2 | 0<br>0<br>2<br>7<br>1 | 0<br>0<br>2<br>7<br>2 | 0<br>0<br>2<br>8<br>1 | 0<br>0<br>2<br>8<br>2 | 0<br>0<br>2<br>9<br>1 | 0<br>0<br>2<br>9<br>2 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>3<br>1 | 0<br>0<br>2<br>3<br>2 | 0<br>0<br>2<br>4<br>1 | 0<br>0<br>2<br>4<br>2 | 0<br>0<br>2<br>6<br>2 | 0<br>0<br>2<br>6<br>2 | 0<br>0<br>2<br>6<br>2 | 0<br>0<br>2<br>7<br>1 | 0<br>0<br>2<br>7<br>2 | 0<br>0<br>2<br>8<br>1 | 0<br>0<br>2<br>8<br>2 | 0<br>0<br>2<br>9<br>1 | 0<br>0<br>2<br>9<br>2 |           |                    |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hemorrhage                                       |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Lymphoid Medulla, Sinus, Dilatation |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |
| Spleen   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infarct  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Pigmentation                                     | 3 |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |
| Red Pulp, Atrophy                                |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymus   | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |   |
| Atrophy  | 2 | 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 |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |
| Alveolus, Hyperplasia              |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |
| Skin                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fat, Subcutaneous Tissue, Necrosis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Vertebra, Fracture |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Bone, Femur        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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  
 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<br>MALE<br>CONTROL WATER | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |                    |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|--------------------|
|   | 0393        | 0696 | 0774 | 0774 | 0774 | 0774 | 0774 | 0672 | 0773 | 0774 | 0774 | 0574 | 0774 | 0674 | 0774 | 0574 | 0771 | 0774 | 0470 | 0774 | 0694 | 0774 | 0574 | 0574 | 0676 |           |                    | 0673               |
|   | 0061        | 0002 | 0071 | 0008 | 0011 | 0002 | 0002 | 0001 | 0002 | 0001 | 0002 | 0002 | 0003 | 0004 | 0001 | 0002 | 0001 | 0006 | 0006 | 0007 | 0007 | 0008 | 0009 | 0001 | 0002 | 0001      | 0022               | males<br>(cont...) |

Fibrous Osteodystrophy

Skeletal Muscle

+ +

**NERVOUS SYSTEM**

Brain, Brain Stem

+ +

Gliosis, Focal

Hypothalamus, Compression

Ventricle, Dilatation

1 3 3

Brain, Cerebellum

+ +

Brain, Cerebrum

Mineralization

Ventricle, Dilatation

+ +

1

Peripheral Nerve, Sciatic

Axon, Degeneration

+ +

1

1

Spinal Cord, Cervical

Axon, Degeneration

Nerve, Degeneration

A +

1

1

1

1

1

1

1

1

1

1

1 1

Spinal Cord, Lumbar

Cyst

Axon, Degeneration

Nerve, Degeneration

A +

1

1

1

1

1

1

1

2 1

X

Spinal Cord, Thoracic

A +

\* .. 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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 Lab: NCTR

|  |           | DAY ON TEST |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | males<br>(cont...) |  |
|--|-----------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|--|
| <b>FISCHER 344 RATS-NCTR RATS<br/>MALE<br/>CONTROL WATER</b> | ANIMAL ID | 033         | 066 | 077 | 077 | 077 | 077 | 077 | 066 | 077 | 077 | 077 | 055 | 077 | 066 | 077 | 055 | 077 | 077 | 044 | 077 | 066 | 077 | 055 | 055 | 066 |                    |  |
|  |           | 993         | 996 | 444 | 224 | 444 | 444 | 444 | 552 | 223 | 444 | 444 | 446 | 444 | 224 | 444 | 770 | 117 | 444 | 003 | 444 | 998 | 444 | 440 | 444 | 663 |                    |  |
|  |           | 002         | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 006 | 006 | 006 | 006 | 006 | 006 | 006 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001                |  |

Zymbal's Gland

+

**URINARY SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney          | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst            |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hydronephrosis  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |
| 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 |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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TDMS No. 20313 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Acrylamide  
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 First Dose M/F: 05/23/05 / 05/23/05  
 Lab: NCTR

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

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                           |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------------------|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b>                 |
| Intestine Large, Cecum                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | <b>45</b>                 |
| Intestine Large, Colon                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | <b>45</b>                 |
| Intestine Large, Rectum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | <b>47</b>                 |
| Intestine Small, Duodenum                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | <b>45</b>                 |
| Intestine Small, Ileum<br>Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | <b>44</b><br><b>2 3.0</b> |
| Intestine Small, Jejunum                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | <b>43</b>                 |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b>                 |
| Angiectasis  |   |   |   |   |   |   |   |   |   | 2 |   | 3 |   |   |   |   |   |   |   |   |   |   |   | <b>3 2.3</b>              |
| Basophilic Focus                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | <b>1</b>                  |
| Basophilic Focus, Multiple                             | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>                  |
| Degeneration, Cystic                                   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   | <b>5 2.0</b>              |
| Eosinophilic Focus                                     |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>                  |
| Granuloma  | 1 |   |   |   |   |   |   | 2 |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   | <b>7 1.4</b>              |
| Hematopoietic Cell Proliferation                       |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>              |
| Vacuolization Cytoplasmic                              |   |   |   | 2 |   |   |   |   |   | 2 | 2 |   |   | 2 |   | 1 |   | 3 |   |   |   |   |   | <b>11 2.1</b>             |
| Bile Duct, Hyperplasia                                 |   |   | 2 |   | 1 |   |   |   | 2 |   |   |   |   | 2 |   |   |   |   |   | 2 | 2 |   |   | <b>16 1.8</b>             |
| Caudate Lobe, Developmental Malformation               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | <b>1</b>                  |
| Centrilobular, Necrosis                                |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   | <b>3 2.7</b>              |
| Hepatocyte, Hyperplasia                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 4.0</b>              |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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<br>MALE<br>CONTROL WATER | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
|   | 0744        | 0594 | 0492 | 0649 | 0677 | 0771 | 0770 | 0544 | 0744 | 0744 | 0523 | 0660 | 0668 | 0660 | 0744 | 0744 | 0559 | 0558 | 0674 | 0770 |          | 0665 | 0562 |
| ANIMAL ID   | 0191        | 0192 | 0193 | 0194 | 0195 | 0196 | 0197 | 0198 | 0199 | 0200 | 0201 | 0202 | 0203 | 0204 | 0205 | 0206 | 0207 | 0208 | 0209 | 0210 | 0211     | 0212 |      |

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 2 3 1 2 **17 1.9**

Salivary Glands + **48**  
 Infiltration Cellular, Plasma Cell 3 **1 3.0**

Stomach, Forestomach + **47**  
 Edema 3 3 **3 2.7**  
 Hyperplasia 2 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 2.2**  
 Infarct X **1**

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

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 Acrylamide  
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS<br>MALE<br>CONTROL WATER | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | * TOTALS |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|------|
|   | 0744        | 0594 | 0492 | 0649 | 0677 | 0771 | 0770 | 0544 | 0744 | 0744 | 0523 | 0666 | 0668 | 0660 | 0744 | 0744 | 0559 | 0558 | 0674 | 0770 |           |          | 0662 |
|   | 0191        | 0199 | 0199 | 0199 | 0199 | 0199 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222      | 0222     |      |
|   | 1121        | 2223 | 2223 | 3334 | 3334 | 4442 | 6661 | 7772 | 8881 | 9992 | 5551 | 6662 | 6661 | 7772 | 7771 | 5552 | 5551 | 6662 | 6661 | 7772 | 7771      | 6662     |      |

Atrium, Thrombosis

X X X X X X X X X X X

13

**ENDOCRINE SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |     |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|
| Adrenal Cortex             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |   |     |     |
| Angiectasis                | 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  
 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<br>MALE<br>CONTROL WATER | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             |                       |                  |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
|   | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>4      | 0<br>4<br>9<br>2      | 0<br>6<br>4<br>9      | 0<br>6<br>7<br>1      | 0<br>7<br>1<br>4      | 0<br>7<br>0<br>4      | 0<br>5<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>2<br>3      | 0<br>6<br>9<br>0      | 0<br>6<br>9<br>8      | 0<br>6<br>9<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>5<br>9      | 0<br>5<br>4<br>8      | 0<br>6<br>7<br>4      | 0<br>7<br>4<br>5      |                       |                       | 0<br>6<br>0<br>2 |
|   | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>2<br>2<br>6<br>1 | 0<br>2<br>2<br>6<br>7 | 0<br>2<br>2<br>7<br>1 | 0<br>2<br>2<br>7<br>2 | 0<br>2<br>2<br>8<br>2 | 0<br>2<br>2<br>8<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>5<br>2 | 0<br>2<br>2<br>5<br>6 | 0<br>2<br>2<br>6<br>6 | 0<br>2<br>2<br>7<br>7 | 0<br>2<br>2<br>7<br>7 | 0<br>2<br>2<br>8<br>8 | 0<br>2<br>2<br>8<br>8 |                  |
|   | <b>* TOTALS</b>       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |

NONE

**GENITAL SYSTEM**

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

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

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| DAY ON TEST                  | FISCHER 344 RATS-NCTR RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |    |     |
|------------------------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|----|-----|
|                              | 0                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          | 0  |     |
| 7                            | 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  |     |
| ANIMAL ID                    | 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 | 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 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 8        | 8  |     |
| 2                            | 1                               | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1        | 2  |     |
| Seminiferous Tubule, Atrophy |                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 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 |

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

TDMS No. 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                                      | FISCHER 344 RATS-NCTR RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | * TOTALS |        |       |
|--|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|--------|-------|
|  | 0744                            | 0594 | 0492 | 0649 | 0677 | 0771 | 0770 | 0544 | 0744 | 0744 | 0523 | 0669 | 0668 | 0660 | 0744 | 0744 | 0559 | 0558 | 0674 | 0774 |           |          | 0660   | 0562  |
| CONTROL WATER                                    | 0191                            | 0199 | 0199 | 0199 | 0199 | 0199 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222 | 0222      | 0222     | 0222   |       |
| Hemorrhage                                       |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |          |        | 1 2.0 |
| Hyperplasia, Lymphoid Medulla, Sinus, Dilatation |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |          |        | 2 2.5 |
| 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      |       |
| <b>INTEGUMENTARY SYSTEM</b>                      |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |          |        |       |
| Mammary Gland                                    | +                               | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | M    | +    | +    | +         | +        | 44     |       |
| Galactocele                                      |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      | X         |          | 3      |       |
| Lactation  |                                 |      |      | 2    | 1    | 2    |      |      | 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  |       |
| <b>MUSCULOSKELETAL SYSTEM</b>                    |                                 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |          |        |       |
| 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  
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 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
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 1) Minimal 3) Moderate  
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TDMS No. 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<br>MALE<br>CONTROL WATER | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>4      | 0<br>4<br>9<br>2      | 0<br>6<br>4<br>9      | 0<br>6<br>7<br>1      | 0<br>7<br>1<br>4      | 0<br>7<br>0<br>4      | 0<br>5<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>2<br>3      | 0<br>6<br>9<br>0      | 0<br>6<br>9<br>8      | 0<br>6<br>6<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>5<br>9      | 0<br>5<br>4<br>8      | 0<br>6<br>7<br>4      | 0<br>7<br>4<br>5      |                       | 0<br>6<br>0<br>2      | 0<br>5<br>2<br>6      |
| ANIMAL ID   | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>1<br>9<br>1<br>2 | 0<br>2<br>2<br>6<br>2 | 0<br>2<br>2<br>6<br>2 | 0<br>2<br>2<br>7<br>2 | 0<br>2<br>2<br>7<br>2 | 0<br>2<br>2<br>8<br>2 | 0<br>2<br>2<br>8<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>3<br>5<br>2 | 0<br>2<br>3<br>5<br>2 | 0<br>2<br>3<br>6<br>1 | 0<br>2<br>3<br>6<br>2 | 0<br>2<br>3<br>7<br>1 | 0<br>2<br>3<br>7<br>2 | 0<br>2<br>3<br>8<br>1 | 0<br>2<br>3<br>8<br>2 |

|                     |   |  |  |  |   |   |   |  |  |   |   |  |   |   |   |  |  |   |   |   |   |   |    |     |
|---------------------|---|--|--|--|---|---|---|--|--|---|---|--|---|---|---|--|--|---|---|---|---|---|----|-----|
| Axon, Degeneration  | 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  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |     |
| Fungus                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 1  |     |
| Inflammation                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   | 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 |   |   |   |   | 1 | 1  | 7   | 1.4 |
| Lacrimal Gland                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 1  |     |     |

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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

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<br>MALE<br>CONTROL WATER | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |        |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
|   | 0744        | 0544  | 0442  | 0649  | 0677  | 0771  | 0770  | 0544  | 0744  | 0744  | 0523  | 0660  | 0668  | 0660  | 0744  | 0744  | 0559  | 0558  | 0674  | 0770  |          | 0665  | 0552   |
| ANIMAL ID   | 01912       | 01912 | 01912 | 01912 | 01912 | 01912 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222    | 02222 |        |
| Zymbal's Gland                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1      |
| <b>URINARY SYSTEM</b>                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |        |
| Kidney  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 47     |
| Cyst  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1      |
| Hydronephrosis                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 2.0  |
| Nephropathy   | 3           | 2     | 1     | 2     | 4     | 3     | 2     | 2     | 3     | 4     | 3     | 3     | 4     | 2     | 3     | 4     | 2     | 2     | 3     | 3     | 2        | 2     | 46 2.7 |
| Urinary Bladder                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 46     |
| Dilatation  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 3 3.3  |

\*\*\* END OF MALE DATA \*\*\*

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TDMS No. 20313 - 05  
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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

| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.70 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |                  |   |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|---|
|  | 0<br>7<br>2<br>4 | 0<br>2<br>9<br>2 | 0<br>4<br>3<br>1 | 0<br>7<br>4<br>4 | 0<br>6<br>1<br>2 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>3<br>5<br>6 | 0<br>6<br>9<br>3 | 0<br>7<br>2<br>9 | 0<br>7<br>4<br>3 | 0<br>7<br>3<br>0 | 0<br>7<br>4<br>4 | 0<br>5<br>7<br>0 | 0<br>6<br>5<br>3 | 0<br>5<br>3<br>4 | 0<br>7<br>3<br>7 | 0<br>6<br>2<br>5 | 0<br>6<br>0<br>6 | 0<br>4<br>8<br>1 |           |                      | 0<br>7<br>2<br>6 |   |
| Regeneration                                       | 4                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Tension Lipidosis                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  | X |
| Vacuolization Cytoplasmic                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Bile Duct, Hyperplasia                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Centrilobular, Cytoplasmic Alteration              | 3                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Centrilobular, Necrosis                            | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Hepatocyte, Hyperplasia                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Left Lateral Lobe, Developmental Malformation      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Oval Cell, Hyperplasia                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Right Lateral Lobe, Developmental Malformation     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Mesentery  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Fat, Necrosis                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Oral Mucosa  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Hyperplasia  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Pancreas   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Inflammation                                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Acinar Cell, Atrophy                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Salivary Glands                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Stomach, Forestomach                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Edema  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Hyperplasia  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Inflammation                                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |
| Ulcer  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |   |

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

TDMS No. 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<br>FEMALE<br>0.70 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>2<br>4      | 0<br>2<br>9<br>2      | 0<br>4<br>3<br>1      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>3<br>5<br>6      | 0<br>6<br>9<br>3      | 0<br>7<br>2<br>9      | 0<br>7<br>4<br>3      | 0<br>7<br>3<br>0      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>0      | 0<br>6<br>7<br>3      | 0<br>5<br>5<br>4      | 0<br>7<br>3<br>7      | 0<br>6<br>2<br>5      | 0<br>6<br>0<br>6      | 0<br>4<br>8<br>1      |                       |                       |
|  | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>3<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>4<br>1 | 0<br>0<br>2<br>4<br>2 | 0<br>0<br>2<br>4<br>2 | 0<br>0<br>2<br>5<br>1 | 0<br>0<br>2<br>5<br>2 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>4<br>4 | 0<br>0<br>2<br>4<br>4 | 0<br>0<br>2<br>4<br>5 | 0<br>0<br>2<br>4<br>5 | 0<br>0<br>2<br>5<br>6 | 0<br>0<br>2<br>5<br>6 | 0<br>1<br>3<br>6<br>1 | 0<br>1<br>3<br>6<br>7 | 0<br>1<br>3<br>7<br>1 | 0<br>1<br>3<br>7<br>2 | 0<br>1<br>3<br>8<br>1 |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular Hemorrhage Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tongue Hyperplasia                         |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**CARDIOVASCULAR SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy          | 3 |   | 2 | 2 | 2 | 2 | 2 | 1 | 3 |   | 2 |   |   | 2 | 2 |   |   |   |   | 2 |   | 2 | 1 |   | 2 |
| Inflammation            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Atrium, Thrombosis      | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Myocardium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Angiectasis                       | 3 |   |   | 2 | 2 | 2 | 2 | 3 | 2 |   |   |   |   | 2 | 2 |   | 2 |   | 2 |   | 2 | 1 |   |   |   |
| Hyperplasia, Focal                |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |
| Hypertrophy, Focal                |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   | 3 | 2 | 2 |
| Thrombosis                        |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Vacuolization Cytoplasmic         |   |   |   |   |   |   |   | 3 |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal                |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.70 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>2<br>4      | 0<br>2<br>9<br>2      | 0<br>4<br>3<br>1      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>3<br>5<br>6      | 0<br>6<br>9<br>3      | 0<br>7<br>2<br>9      | 0<br>7<br>4<br>3      | 0<br>7<br>3<br>0      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>0      | 0<br>6<br>7<br>3      | 0<br>5<br>5<br>4      | 0<br>7<br>3<br>7      | 0<br>6<br>2<br>5      | 0<br>6<br>0<br>6      | 0<br>4<br>8<br>1      |                       |                       | 0<br>7<br>2<br>6      |
|  | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>3<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>5 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>5 | 0<br>0<br>2<br>2<br>5 | 0<br>1<br>3<br>6<br>1 | 0<br>1<br>3<br>6<br>7 | 0<br>1<br>3<br>7<br>1 | 0<br>1<br>3<br>7<br>2 | 0<br>1<br>3<br>7<br>8 | 0<br>1<br>3<br>8<br>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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicle, Cyst               |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   | 4 |
| Follicular Cell, Hyperplasia | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**GENERAL BODY SYSTEM**

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

**GENITAL SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Hyperplasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Inflammation                 |   |   | 1 |   |   | 3 |   | 2 |   |   |   |   |   | 2 | 2 | 2 | 3 |   |   | 3 |   |   |   |   | 1 | 1 |   |  |
| Duct, Ectasia                | 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 |  |

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

|  |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|
| Endometrium, Hyperplasia, Cystic<br>Horn, Dilatation | 2 | 2 | 3 | 3 | 2 | 2 | 1 |   |
| Vagina<br>Dilatation<br>Mucocyte, Metaplasia         |   |   |   |   |   | + | + | 4 |

**HEMATOPOIETIC SYSTEM**

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

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



TDMS No. 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<br>FEMALE<br>0.70 ACRYL | DAY ON TEST |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | ANIMAL ID | females<br>(cont...) |          |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------------------|----------|
|  | 07<br>24    | 02<br>92 | 04<br>31 | 07<br>44 | 06<br>12 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 | 07<br>74 |           |                      | 07<br>74 |
|  | 0           | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         | 00<br>22<br>11<br>11 |          |

|  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |   |   |  |   |  |   |  |   |  |   |   |   |   |   |   |
|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|---|---|--|---|--|---|--|---|--|---|---|---|---|---|---|
| Infiltration Cellular, Plasma Cell<br>Medulla, Sinus, Dilatation                           | 2 |  | 2 |  |   |  |   |  |   |  |   |  | 3 |  |   | 2 |   |  | 2 |  |   |  |   |  |   |   |   |   |   |   |
| Lymph Node, Mesenteric<br>Degeneration, Cystic<br>Hemorrhage<br>Lymphocyte, Atrophy        | + |  |   |  |   |  |   |  |   |  |   |  |   |  |   |   |   |  |   |  |   |  |   |  | 4 | 3 |   |   |   |   |
| Spleen<br>Hematopoietic Cell Proliferation<br>Infarct<br>Pigmentation<br>Red Pulp, Atrophy | + |  | + |  | + |  | + |  | + |  | + |  | + |  | + |   | + |  | + |  | + |  | + |  | + |   | 2 | 4 | 4 | X |
| Thymus<br>Atrophy<br>Cyst  | + |  | + |  | + |  | + |  | + |  | + |  | + |  | + |   | + |  | + |  | + |  | M |  | + |   | + |   | + |   |

**INTEGUMENTARY SYSTEM**

|   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Galactoceles<br>Inflammation<br>Lactation<br>Alveolus, Hyperplasia | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X | X | X | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 4 | 3 | 1 | 1 | 2 | 4 | 3 | 1 | 2 |
| Skin  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL 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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 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<br>FEMALE<br>0.70 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>2<br>4      | 0<br>2<br>9<br>2      | 0<br>4<br>3<br>1      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>3<br>6      | 0<br>3<br>5<br>9      | 0<br>6<br>7<br>3      | 0<br>7<br>2<br>9      | 0<br>7<br>4<br>3      | 0<br>7<br>3<br>0      | 0<br>7<br>4<br>4      | 0<br>5<br>7<br>0      | 0<br>6<br>7<br>3      | 0<br>5<br>5<br>4      | 0<br>7<br>3<br>7      | 0<br>6<br>2<br>5      | 0<br>6<br>0<br>6      | 0<br>4<br>8<br>1      |                       |                       |
|  | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>5 | 0<br>0<br>2<br>2<br>5 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>5 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>1 | 0<br>1<br>3<br>6<br>7 | 0<br>1<br>3<br>6<br>1 | 0<br>1<br>3<br>7<br>2 | 0<br>1<br>3<br>7<br>1 | 0<br>1<br>3<br>8<br>1 |

Bone

Bone, Femur  
Osteopetrosis

+  
 4 3

Skeletal Muscle

+ +

**NERVOUS SYSTEM**

Brain, Brain Stem  
Hypothalamus, Compression

+  
 2 3 2 3 3

Brain, Cerebellum

+ +

Brain, Cerebrum  
Compression  
Gliosis, Focal  
Ventricle, Dilatation

+  
 2 2

Peripheral Nerve, Sciatic  
Axon, Degeneration

+  
 1

Spinal Cord, Cervical  
Cyst  
Gliosis, Focal  
Axon, Degeneration

+  
 1

Spinal Cord, Lumbar  
Gliosis, Focal  
Axon, Degeneration

+  
 2 1 1 2 1 2

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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<br>FEMALE<br>0.70 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
|  | 0<br>7<br>2<br>4 | 0<br>2<br>9<br>2 | 0<br>4<br>3<br>1 | 0<br>7<br>4<br>4 | 0<br>6<br>1<br>2 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 |           |                      |
| Infiltration Cellular, Lymphocyte<br>Inflammation  | 2                | 1                | 1                |                  | 2                | 1                |                  |                  |                  |                  |                  |                  | 2                |                  | 1                | 1                | 1                |                  |                  |                  |                  |                  |                  | 1                |           |                      |
| Lacrimal Gland                                     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Zymbal's Gland<br>Hyperplasia                      |                  |                  | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | +                | 3         |                      |
| <b>URINARY SYSTEM</b>                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| 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                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |

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TDMS No. 20313 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Acrylamide  
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Date Report Requested: 01/15/2010  
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.70 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
|  | 0744        | 0423  | 0386  | 0719  | 0555  | 0774  | 0774  | 0777  | 0556  | 0664  | 0559  | 0774  | 0668  | 0770  | 0488  | 0774  | 0668  | 0773  | 0668  | 0481  |          | 0551  | 0551  |
| ANIMAL ID  | 01382       | 01339 | 01399 | 01400 | 01401 | 01402 | 01403 | 01404 | 01405 | 01406 | 01407 | 01408 | 01409 | 01410 | 01411 | 01412 | 01413 | 01414 | 01415 | 01416 | 01417    | 01418 | 01419 |

**ALIMENTARY SYSTEM**

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

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

TDMS No. 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<br>FEMALE<br>0.70 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |       |   |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|---|
|  | 0<br>7<br>4<br>4      | 0<br>4<br>2<br>3      | 0<br>3<br>8<br>6      | 0<br>7<br>1<br>9      | 0<br>5<br>5<br>5      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>6      | 0<br>5<br>5<br>7      | 0<br>6<br>4<br>6      | 0<br>5<br>6<br>9      | 0<br>7<br>4<br>8      | 0<br>6<br>8<br>5      | 0<br>4<br>7<br>4      | 0<br>6<br>8<br>6      | 0<br>7<br>3<br>6      | 0<br>6<br>8<br>1      | 0<br>4<br>5<br>1      | 0<br>5<br>7<br>1      | 0<br>4<br>2<br>5      |                       |       |   |
| ANIMAL ID  | 0<br>1<br>3<br>8<br>2 | 0<br>1<br>3<br>9<br>1 | 0<br>1<br>3<br>9<br>2 | 0<br>1<br>4<br>0<br>1 | 0<br>1<br>4<br>0<br>2 | 0<br>1<br>6<br>1<br>1 | 0<br>1<br>6<br>1<br>2 | 0<br>1<br>6<br>2<br>1 | 0<br>1<br>6<br>2<br>2 | 0<br>1<br>6<br>3<br>2 | 0<br>1<br>6<br>3<br>4 | 0<br>1<br>6<br>3<br>4 | 0<br>1<br>6<br>5<br>1 | 0<br>2<br>6<br>5<br>2 | 0<br>2<br>6<br>0<br>1 | 0<br>2<br>6<br>1<br>2 | 0<br>2<br>6<br>1<br>2 | 0<br>2<br>6<br>1<br>2 | 0<br>2<br>6<br>1<br>2 | 0<br>2<br>6<br>3<br>1 | 0<br>2<br>6<br>3<br>2 |       |   |
| Regeneration                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 2 3.5 |   |
| Tension Lipidosis                                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1     | 1 |
| Vacuolization Cytoplasmic                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 4                     |                       |                       | 2                     |                       |                       | 4 2.5 |   |
| Bile Duct, Hyperplasia                             |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 5 1.6 |   |
| Centrilobular, Cytoplasmic Alteration              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 3.0 |   |
| Centrilobular, Necrosis                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       | 3                     |                       |                       |                       | 3 2.0 |   |
| Hepatocyte, Hyperplasia                            |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3 2.7 |   |
| Left Lateral Lobe, Developmental Malformation      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       | 2     |   |
| Oval Cell, Hyperplasia                             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 3.0 |   |
| Right Lateral Lobe, Developmental Malformation     |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1     |   |
| Mesentery  |                       |                       |                       |                       |                       |                       | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                       | +                     |                       | 5     |   |
| Fat, Necrosis                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     |                       | 3                     |                       | 4 3.3 |   |
| Oral Mucosa  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     | +                     |                       |                       |                       | +                     | +                     |                       | 7     |   |
| Hyperplasia  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 2.5 |   |
| Pancreas   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48    |   |
| Inflammation                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 2.0 |   |
| Acinar Cell, Atrophy                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 8 1.6 |   |
| Salivary Glands                                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48    |   |
| Stomach, Forestomach                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48    |   |
| Edema  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 3.0 |   |
| Hyperplasia  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 2.5 |   |
| Inflammation                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 3.0 |   |
| Ulcer  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 3.0 |   |

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 I .. Insufficient tissue  
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 BLANK .. Not examined microscopically  
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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<br>FEMALE<br>0.70 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>4<br>4      | 0<br>4<br>2<br>3      | 0<br>3<br>8<br>6      | 0<br>7<br>1<br>9      | 0<br>5<br>5<br>5      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>6      | 0<br>5<br>5<br>7      | 0<br>6<br>4<br>6      | 0<br>5<br>6<br>9      | 0<br>7<br>4<br>8      | 0<br>6<br>8<br>5      | 0<br>4<br>7<br>4      | 0<br>6<br>8<br>6      | 0<br>7<br>3<br>3      | 0<br>6<br>8<br>1      | 0<br>4<br>5<br>1      | 0<br>5<br>7<br>1      | 0<br>4<br>2<br>5      |                       |
| ANIMAL ID  | 0<br>1<br>3<br>8<br>2 | 0<br>1<br>3<br>9<br>1 | 0<br>1<br>3<br>9<br>2 | 0<br>1<br>4<br>0<br>1 | 0<br>1<br>4<br>0<br>2 | 0<br>1<br>6<br>1<br>1 | 0<br>1<br>6<br>1<br>2 | 0<br>1<br>6<br>2<br>1 | 0<br>1<br>6<br>2<br>2 | 0<br>1<br>6<br>3<br>2 | 0<br>1<br>6<br>3<br>3 | 0<br>1<br>6<br>4<br>4 | 0<br>1<br>6<br>5<br>5 | 0<br>2<br>1<br>0<br>1 | 0<br>2<br>2<br>1<br>2 | 0<br>2<br>1<br>1<br>1 | 0<br>2<br>1<br>1<br>2 | 0<br>2<br>1<br>1<br>2 | 0<br>2<br>1<br>1<br>2 | 0<br>2<br>1<br>3<br>1 | 0<br>2<br>2<br>3<br>2 |
| Stomach, Glandular Hemorrhage Inflammation         | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
|  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |
|  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |
| Tongue Hyperplasia                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                       |                       |                       |                       | +                     |                       | 3                     |
|  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |
| <b>CARDIOVASCULAR SYSTEM</b>                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Blood Vessel                                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
| Heart  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
| Cardiomyopathy                                     | 3                     |                       | 2                     | 2                     |                       | 2                     | 2                     |                       | 2                     |                       | 2                     | 1                     |                       | 2                     |                       | 2                     | 2                     |                       | 2                     | 2                     | 30 2.0                |
| Inflammation                                       | 3                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 3.0                 |
| Atrium, Thrombosis                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |
| Myocardium, Hyperplasia                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     | 1 4.0                 |
| <b>ENDOCRINE SYSTEM</b>                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Adrenal Cortex                                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
| Accessory Adrenal Cortical Nodule                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Angiectasis  |                       |                       |                       | 3                     |                       | 2                     |                       | 2                     | 2                     |                       | 2                     |                       |                       |                       |                       | 2                     |                       |                       |                       | 2                     | 20 2.1                |
| Hyperplasia, Focal                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2 2.0                 |
| Hypertrophy, Focal                                 | 3                     |                       |                       |                       |                       |                       |                       | 3                     |                       |                       |                       |                       |                       | 2                     |                       | 2                     | 2                     |                       |                       | 3                     | 10 2.5                |
| Thrombosis   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 3.0                 |
| Vacuolization Cytoplasmic                          |                       |                       |                       |                       |                       |                       |                       | 3                     |                       | 2                     | 2                     |                       |                       | 2                     |                       | 3                     |                       |                       | 3                     | 2                     | 9 2.6                 |
| Adrenal Medulla                                    | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |
| Hyperplasia, Focal                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |

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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<br>FEMALE<br>0.70 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |        |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
|  | 0744        | 0423  | 0386  | 0719  | 0555  | 0774  | 0774  | 0776  | 0557  | 0646  | 0569  | 0748  | 0688  | 0745  | 0676  | 0763  | 0668  | 0481  | 0551  | 0571  |          | 0425  |        |
| ANIMAL ID  | 01382       | 01339 | 01339 | 01400 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401 | 01401    |       |        |
| 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    |
| <b>GENERAL BODY SYSTEM</b>                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |        |
| Tissue NOS   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | +     | 1      |
| <b>GENITAL SYSTEM</b>                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |        |
| 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     | 43 2.6 |
| Cyst   |             |       |       |       |       |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |          |       | 5      |
| Uterus   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48     |
| Cervix, Mucocyte, Metaplasia                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 3.0  |

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 CAS Number: 79-06-1

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| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.70 ACRYL  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |     |    |     |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|----|-----|
|   | 0<br>7<br>4<br>4      | 0<br>4<br>2<br>3      | 0<br>3<br>8<br>6      | 0<br>7<br>1<br>9      | 0<br>5<br>5<br>5      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>6      | 0<br>5<br>5<br>7      | 0<br>6<br>4<br>6      | 0<br>5<br>6<br>9      | 0<br>7<br>4<br>8      | 0<br>6<br>8<br>5      | 0<br>4<br>7<br>4      | 0<br>6<br>8<br>6      | 0<br>7<br>3<br>3      | 0<br>6<br>6<br>8      | 0<br>4<br>5<br>1      | 0<br>5<br>5<br>1      | 0<br>4<br>7<br>5      |                       |     |    |     |
| ANIMAL ID   | 0<br>1<br>3<br>8<br>2 | 0<br>1<br>3<br>9<br>1 | 0<br>1<br>3<br>9<br>2 | 0<br>1<br>4<br>0<br>1 | 0<br>1<br>4<br>0<br>2 | 0<br>1<br>6<br>1<br>1 | 0<br>1<br>6<br>1<br>2 | 0<br>1<br>6<br>2<br>2 | 0<br>1<br>6<br>2<br>2 | 0<br>1<br>6<br>3<br>2 | 0<br>1<br>6<br>3<br>2 | 0<br>1<br>6<br>4<br>1 | 0<br>1<br>6<br>4<br>5 | 0<br>2<br>1<br>0<br>1 | 0<br>2<br>1<br>0<br>2 | 0<br>2<br>1<br>1<br>1 | 0<br>2<br>1<br>1<br>2 | 0<br>2<br>1<br>2<br>2 | 0<br>2<br>1<br>2<br>2 | 0<br>2<br>1<br>3<br>1 | 0<br>2<br>1<br>3<br>2 |     |    |     |
| Endometrium, Hyperplasia, Cystic<br>Horn, Dilatation  | 1                     |                       |                       |                       |                       |                       | 2                     |                       | 2                     |                       | 1                     |                       | 2                     |                       | 2                     |                       |                       |                       |                       |                       | 12                    | 1.8 |    |     |
| Vagina<br>Dilatation<br>Mucocyte, Metaplasia  | +                     |                       |                       |                       |                       |                       |                       |                       | +                     |                       |                       |                       |                       |                       | +                     |                       |                       |                       |                       |                       | 5                     |     |    |     |
|   | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |     |    |     |
|   |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       | 3                     |                       |                       |                       |                       |                       | 3                     | 3.0 |    |     |
| <b>HEMATOPOIETIC SYSTEM</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     |    |     |
| Bone Marrow<br>Atrophy<br>Hyperplasia<br>Myeloid Cell, Hyperplasia  | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |     | 48 |     |
|   |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 3  | 2.3 |
|   | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 3  | 2.3 |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 2.0 |
| Lymph Node<br>Axillary, Infiltration Cellular, Plasma Cell<br>Iliac, Degeneration, Cystic<br>Lumbar, Degeneration, Cystic<br>Lumbar, Medulla, Sinus, Dilatation<br>Mediastinal, Hemorrhage<br>Mediastinal, Hyperplasia, Lymphoid<br>Mediastinal, Pigmentation<br>Mediastinal, Medulla, Sinus, Dilatation<br>Pancreatic, Necrosis<br>Renal, Degeneration, Cystic<br>Renal, Hyperplasia, Lymphoid |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |     | 9  |     |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 3.0 |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 4.0 |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 4.0 |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 3.0 |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 3.0 |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 3.0 |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 3.0 |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 2.0 |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 3.0 |
| Lymph Node, Mandibular<br>Degeneration, Cystic<br>Hyperplasia, Lymphoid   | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |                       | +                     |     | 48 |     |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 4  | 1.8 |
|   |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 2.0 |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |     | 1  | 2.0 |

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



TDMS No. 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<br>FEMALE<br>0.70 ACRYL                        | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |                      |                               |   |             |   |                            |   |              |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|----------------------|-------------------------------|---|-------------|---|----------------------------|---|--------------|
|   | 0744        | 0423  | 0386  | 0719  | 0555  | 0774  | 0774  | 0776  | 0557  | 0666  | 0559  | 0764  | 0668  | 0775  | 0480  | 0784  | 0688  | 0733  | 0668  | 0441  |          | 0551  | 0557  | 0425                 |                               |   |             |   |                            |   |              |
| ANIMAL ID   | 01382       | 01333 | 01333 | 01440 | 01444 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666    | 01666 | 01666 |                      |                               |   |             |   |                            |   |              |
| Bone  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | +                    | 1                             |   |             |   |                            |   |              |
| Bone, Femur<br>Osteopetrosis  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 2                    | 48<br>3 3.0                   |   |             |   |                            |   |              |
| Skeletal Muscle   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 48                   |                               |   |             |   |                            |   |              |
| <b>NERVOUS SYSTEM</b>   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |                      |                               |   |             |   |                            |   |              |
| Brain, Brain Stem<br>Hypothalamus, Compression                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 2                    | 3                             | 1 | 48<br>8 2.4 |   |                            |   |              |
| Brain, Cerebellum   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 48                   |                               |   |             |   |                            |   |              |
| Brain, Cerebrum<br>Compression<br>Gliosis, Focal<br>Ventricle, Dilatation | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 2                    | 48<br>1 2.0<br>1 2.0<br>2 2.0 |   |             |   |                            |   |              |
| Peripheral Nerve, Sciatic<br>Axon, Degeneration                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 1                    | 1                             | 1 | 1           | 1 | 1                          | 1 | 48<br>19 1.0 |
| Spinal Cord, Cervical<br>Cyst<br>Gliosis, Focal<br>Axon, Degeneration     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 1                    | 1                             | 2 | 1           | X | 48<br>1<br>1 2.0<br>10 1.0 |   |              |
| Spinal Cord, Lumbar<br>Gliosis, Focal<br>Axon, Degeneration               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 48<br>2 2.0<br>2 1.0 |                               |   |             |   |                            |   |              |

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

TDMS No. 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<br>FEMALE<br>0.70 ACRYL                              | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |                                  |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|----------------------------------|
|   | 0744        | 0423  | 0386  | 0719  | 0555  | 0774  | 0774  | 0776  | 0557  | 0666  | 0559  | 0764  | 0688  | 0755  | 0477  | 0668  | 0733  | 0668  | 0441  | 0551  |          | 0557  | 0425                             |
| ANIMAL ID   | 01382       | 01392 | 01393 | 01404 | 01414 | 01416 | 01416 | 01426 | 01436 | 01436 | 01446 | 01456 | 01466 | 01476 | 01486 | 01496 | 01506 | 01516 | 01526 | 01536 | 01546    | 01556 |                                  |
| Nerve, Degeneration   |             |       |       | 1     |       | 1     | 1     | 1     |       |       |       | 1     |       | 1     |       |       | 1     | 1     |       |       |          |       | 15 1.0                           |
| Spinal Cord, Thoracic<br>Gliosis, Focal   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48                               |
| Axon, Degeneration<br>Nerve, Degeneration                                       |             |       |       | 1     |       |       |       | 1     |       | 1     |       |       |       | 1     |       | 1     |       |       | 1     |       | 1        |       | 16 1.0<br>1 1.0                  |
| <b>RESPIRATORY SYSTEM</b>   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |                                  |
| Lung<br>Granuloma<br>Inflammation   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48    |                                  |
| Alveolar Epithelium, Hyperplasia<br>Alveolus, Infiltration Cellular, Histiocyte | 3           |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       | 3     |       |       | 2     |          | 2     | 4 2.0<br>4 1.8<br>2 3.0<br>8 1.6 |
| Nose<br>Fungus<br>Inflammation<br>Osteopetrosis                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48    |                                  |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       | 2     |          |       | 1<br>8 1.9<br>2 3.0              |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48    |                                  |
| <b>SPECIAL SENSES SYSTEM</b>  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |                                  |
| Eye<br>Cataract<br>Retina, Degeneration<br>Sclera, Metaplasia, Osseous          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +        | +     | 46                               |
|   | 2           |       |       |       |       | 4     | 3     | 2     |       |       |       |       | 2     | 2     |       | 2     | 2     | 1     |       |       |          |       | 1<br>23 2.1<br>1 2.0             |
| Harderian Gland   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48    |                                  |

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

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<br>FEMALE<br>0.70 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |                 |        |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----------------|--------|
|  | 0744        | 0423  | 0386  | 0719  | 0555  | 0774  | 0774  | 0775  | 0566  | 0655  | 0764  | 0684  | 0708  | 0474  | 0688  | 0733  | 0668  | 0481  | 0551  | 0554  |          | 0425            |        |
| ANIMAL ID  | 01382       | 01391 | 01333 | 01443 | 01444 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666 | 01666    |                 |        |
| Infiltration Cellular, Lymphocyte Inflammation     |             |       | 2     |       |       | 1     |       |       | 1     |       | 2     |       |       |       |       |       |       | 2     | 1     | 2     |          | 17 1.4<br>1 2.0 |        |
| Lacrimal Gland                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | +     |          | 1               |        |
| Zymbal's Gland Hyperplasia                         |             |       |       |       |       |       |       |       |       |       |       |       | +     |       |       |       |       |       |       |       |          | 3<br>1 3.0      |        |
| <b>URINARY SYSTEM</b>                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |                 |        |
| Kidney   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48              |        |
| Cyst   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2               |        |
| Hydronephrosis                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 2.0           |        |
| Mineralization                                     |             | 1     | 1     | 2     | 2     | 1     | 1     | 1     |       |       |       |       | 1     | 2     | 1     |       | 2     | 2     |       | 2     | 2        | 24 1.5          |        |
| Nephropathy  | 2           |       |       | 1     |       | 1     |       | 1     |       | 2     | 2     | 1     |       |       | 1     | 3     | 2     | 2     | 3     |       | 1        | 1               | 26 1.7 |
| Urinary Bladder                                    | +           | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 47              |        |
| Dilatation   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 4.0           |        |
| Infiltration Cellular, Lymphocyte                  |             |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |          | 1 1.0           |        |

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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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID | females<br>(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|----------------------|
|  | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>8      | 0<br>6<br>2<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>7<br>0      | 0<br>6<br>8<br>6      | 0<br>7<br>4<br>0      | 0<br>4<br>6<br>4      | 0<br>2<br>6<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>4<br>3<br>4      | 0<br>7<br>3<br>4      | 0<br>2<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>0<br>1      | 0<br>7<br>8<br>4      | 0<br>7<br>4<br>4      |                       |           |                      |
|  | 0<br>0<br>0<br>6<br>1 | 0<br>0<br>0<br>6<br>2 | 0<br>0<br>0<br>7<br>1 | 0<br>0<br>0<br>7<br>2 | 0<br>0<br>0<br>8<br>1 | 0<br>0<br>0<br>8<br>2 | 0<br>0<br>0<br>9<br>1 | 0<br>0<br>0<br>9<br>2 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>2 | 0<br>0<br>8<br>1<br>1 | 0<br>0<br>8<br>1<br>2 | 0<br>0<br>8<br>2<br>2 | 0<br>0<br>8<br>3<br>1 | 0<br>0<br>8<br>3<br>2 | 0<br>0<br>8<br>4<br>1 | 0<br>0<br>8<br>4<br>2 | 0<br>0<br>8<br>5<br>1 | 0<br>0<br>8<br>5<br>2 | 0<br>1<br>1<br>1<br>1 | 0<br>1<br>1<br>1<br>2 | 0<br>1<br>1<br>2<br>2 | 0<br>1<br>1<br>2<br>2 | 0<br>1<br>1<br>2<br>2 |           |                      |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + |
| Intestine Large, Colon                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Intestine Large, Rectum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Intestine Small, Duodenum                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + |
| Intestine Small, Ileum<br>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                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| 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

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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
|  | 0<br>7<br>4<br>4 | 0<br>6<br>1<br>8 | 0<br>6<br>2<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>7<br>0 | 0<br>6<br>8<br>6 | 0<br>7<br>4<br>0 | 0<br>4<br>6<br>4 | 0<br>2<br>6<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>3 | 0<br>7<br>4<br>3 | 0<br>4<br>3<br>4 | 0<br>7<br>3<br>4 | 0<br>2<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>5<br>0<br>1 | 0<br>7<br>8<br>4 | 0<br>7<br>4<br>4 |                       |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>0<br>6<br>1 |           |                      |

Centrilobular, Necrosis  
 Left Lateral Lobe, Developmental Malformation  
 Median Lobe, Developmental Malformation

X X X X X

Mesentery  
 Fat, Necrosis

+  
3 +  
3

Oral Mucosa  
 Hyperplasia

+ +  
2

Pancreas  
 Accessory Spleen  
 Acinar Cell, Atrophy

+ A + +  
1 3 2

Salivary Glands

+ +

Stomach, Forestomach  
 Edema  
 Hyperplasia  
 Ulcer

+  
2 3

Stomach, Glandular

+ +

Tongue

**CARDIOVASCULAR SYSTEM**

Blood Vessel

+ +

Heart  
 Cardiomyopathy

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

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





TDMS No. 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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID             | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------------------|----------------------|
|  | 0<br>7<br>4<br>4 | 0<br>6<br>1<br>8 | 0<br>6<br>2<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>7<br>0 | 0<br>6<br>8<br>6 | 0<br>7<br>4<br>0 | 0<br>4<br>6<br>0 | 0<br>2<br>6<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>3 | 0<br>7<br>4<br>3 | 0<br>4<br>3<br>4 | 0<br>7<br>2<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>0<br>1 | 0<br>5<br>8<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>7<br>4 |                       |                       |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>0<br>6<br>1 | 1<br>1<br>1<br>2<br>2 |                      |

NONE

**GENITAL SYSTEM**

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

**HEMATOPOIETIC SYSTEM**

|                           |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow               | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Atrophy                   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hyperplasia               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Myeloid Cell, Hyperplasia |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lymph Node                |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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  
 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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>8      | 0<br>6<br>2<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>7<br>0      | 0<br>6<br>8<br>6      | 0<br>7<br>4<br>4      | 0<br>4<br>6<br>0      | 0<br>2<br>6<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>4<br>3<br>4      | 0<br>7<br>2<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>0<br>1      | 0<br>7<br>8<br>4      | 0<br>7<br>4<br>4      |                       |                       |                       |
|  | 0<br>0<br>0<br>6<br>1 | 0<br>0<br>0<br>6<br>2 | 0<br>0<br>0<br>7<br>1 | 0<br>0<br>0<br>8<br>2 | 0<br>0<br>0<br>8<br>1 | 0<br>0<br>0<br>9<br>2 | 0<br>0<br>0<br>9<br>1 | 0<br>0<br>0<br>9<br>2 | 0<br>0<br>0<br>0<br>1 | 0<br>0<br>0<br>0<br>1 | 0<br>0<br>0<br>0<br>1 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>1 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>2 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>1 |

Degeneration, Cystic  
 Mediastinal, Inflammation

Lymph Node, Mandibular  
 Degeneration, Cystic  
 Infiltration Cellular, Plasma Cell

Lymph Node, Mesenteric  
 Degeneration, Cystic  
 Hyperplasia, Lymphoid

Spleen  
 Hematopoietic Cell Proliferation  
 Pigmentation  
 Capsule, Proliferation Connective Tissue  
 Red Pulp, Atrophy  
 Red Pulp, Hyperplasia

Thymus  
 Atrophy  
 Cyst

**INTEGUMENTARY SYSTEM**

Mammary Gland  
 Galactocele  
 Lactation  
 Alveolus, Hyperplasia

Skin

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 + .. Tissue examined microscopically  
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 I .. Insufficient tissue

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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

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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
|  | 0<br>7<br>4<br>4 | 0<br>6<br>1<br>8 | 0<br>6<br>2<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>7<br>0 | 0<br>6<br>8<br>6 | 0<br>7<br>4<br>0 | 0<br>4<br>6<br>4 | 0<br>2<br>6<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>3 | 0<br>7<br>4<br>3 | 0<br>4<br>3<br>4 | 0<br>7<br>2<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>0<br>1 | 0<br>5<br>8<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 |                       |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>0<br>6<br>1 |           |                      |

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 1  
 Spinal Cord +  
 Keratin Cyst X  
 Spinal Cord, Cervical +  
 Hemorrhage 2 2  
 Axon, Degeneration 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 1-4 .. Lesion qualified as:  
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 I .. Insufficient tissue BLANK .. Not examined microscopically 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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| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.35 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID             | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------------------|----------------------|
|  | 0<br>7<br>4<br>4 | 0<br>6<br>1<br>8 | 0<br>6<br>2<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>7<br>0 | 0<br>6<br>8<br>6 | 0<br>7<br>4<br>0 | 0<br>4<br>6<br>4 | 0<br>2<br>6<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>3 | 0<br>7<br>4<br>3 | 0<br>4<br>3<br>4 | 0<br>7<br>2<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>0<br>1 | 0<br>5<br>8<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 |                       |                       |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>0<br>6<br>1 | 1<br>1<br>1<br>2<br>2 |                      |

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

**RESPIRATORY SYSTEM**

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

**SPECIAL SENSES SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ear             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye<br>Cataract | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | A | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID             | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------------------|----------------------|
|  | 0<br>7<br>4<br>4 | 0<br>6<br>1<br>8 | 0<br>6<br>2<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>7<br>0 | 0<br>6<br>8<br>6 | 0<br>7<br>4<br>4 | 0<br>4<br>6<br>0 | 0<br>2<br>6<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>3 | 0<br>7<br>4<br>3 | 0<br>4<br>3<br>4 | 0<br>7<br>3<br>4 | 0<br>2<br>9<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>7<br>0 | 0<br>5<br>8<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>7<br>4      |                       |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>0<br>6<br>1 | 0<br>1<br>1<br>2<br>2 |                      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phthisis Bulbi<br>Retina, Degeneration                               | 1 |   |   |   |   | 2 |   |   | 1 |   |   | 2 | 1 | 2 |   |   |   | 2 |   | 1 |   |   | 1 |
| Harderian Gland<br>Infiltration Cellular, Lymphocyte<br>Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**URINARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney<br>Accumulation, Hyaline Droplet<br>Mineralization<br>Nephropathy<br>Pigmentation<br>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<br>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  
 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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>9<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>6      | 0<br>6<br>8<br>9      | 0<br>7<br>4<br>1      | 0<br>4<br>7<br>4      | 0<br>5<br>3<br>0      | 0<br>6<br>6<br>2      | 0<br>4<br>1<br>1      | 0<br>7<br>2<br>3      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>2      | 0<br>7<br>4<br>0      |                       | 0<br>5<br>0<br>8      |
| ANIMAL ID  | 0<br>1<br>1<br>3<br>2 | 0<br>1<br>1<br>4<br>1 | 0<br>1<br>1<br>4<br>2 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>2 | 0<br>1<br>1<br>6<br>1 | 0<br>1<br>1<br>6<br>2 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>1<br>7<br>2 | 0<br>1<br>1<br>8<br>1 | 0<br>1<br>1<br>8<br>2 | 0<br>1<br>1<br>9<br>1 | 0<br>1<br>1<br>9<br>2 | 0<br>2<br>0<br>0<br>1 | 0<br>2<br>0<br>0<br>1 | 0<br>2<br>3<br>3<br>1 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>3<br>1 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>4<br>1 | 0<br>2<br>3<br>4<br>2 |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48          |
| Intestine Large, Cecum                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46          |
| Intestine Large, Colon                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47          |
| Intestine Large, Rectum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47          |
| Intestine Small, Duodenum                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46          |
| Intestine Small, Ileum<br>Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46<br>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 |   |   | 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  
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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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>9<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>6      | 0<br>6<br>7<br>9      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>1      | 0<br>5<br>3<br>0      | 0<br>6<br>6<br>2      | 0<br>4<br>1<br>1      | 0<br>7<br>2<br>3      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>2      | 0<br>7<br>4<br>0      |                       | 0<br>5<br>0<br>8      |
| ANIMAL ID  | 0<br>1<br>1<br>3<br>2 | 0<br>1<br>1<br>4<br>1 | 0<br>1<br>1<br>4<br>2 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>2 | 0<br>1<br>1<br>6<br>1 | 0<br>1<br>1<br>6<br>2 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>1<br>7<br>2 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>1<br>8<br>2 | 0<br>1<br>1<br>8<br>1 | 0<br>1<br>1<br>8<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>1 | 0<br>2<br>2<br>9<br>2 | 0<br>2<br>2<br>9<br>1 |

|   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |     |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Centrilobular, Necrosis                       | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  | 2.0 |
| Left Lateral Lobe, Developmental Malformation |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6  |     |
| Median Lobe, Developmental Malformation       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  |     |
| Mesentery                                     |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4  |     |
| Fat, Necrosis                                 | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4  | 3.3 |
| Oral Mucosa                                   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3  |     |
| Hyperplasia                                   | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  | 2.0 |
| Pancreas                                      | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 47 |     |
| Accessory Spleen                              |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  |     |
| Acinar Cell, Atrophy                          | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6  | 1.7 |
| Salivary Glands                               | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 48 |     |
| Stomach, Forestomach                          | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 48 |     |
| Edema   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  | 3.0 |
| Hyperplasia                                   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3  | 2.3 |
| Ulcer   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  | 3.0 |
| Stomach, Glandular                            | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 48 |     |
| Tongue  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  |     |

**CARDIOVASCULAR SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Blood Vessel   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 48 |    |     |
| Heart          | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 48 |    |     |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 2 | 2 | 3 | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 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:  
 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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>9<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>6      | 0<br>6<br>8<br>9      | 0<br>7<br>4<br>1      | 0<br>4<br>7<br>4      | 0<br>5<br>3<br>0      | 0<br>6<br>6<br>2      | 0<br>4<br>1<br>1      | 0<br>7<br>2<br>3      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>2      | 0<br>7<br>0<br>9      |                       | 0<br>5<br>0<br>8      |
| ANIMAL ID  | 0<br>1<br>1<br>3<br>2 | 0<br>1<br>1<br>4<br>1 | 0<br>1<br>1<br>4<br>2 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>2 | 0<br>1<br>1<br>6<br>1 | 0<br>1<br>1<br>6<br>2 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>1<br>7<br>2 | 0<br>1<br>1<br>8<br>1 | 0<br>1<br>1<br>8<br>2 | 0<br>1<br>1<br>9<br>1 | 0<br>1<br>1<br>9<br>2 | 0<br>2<br>0<br>0<br>1 | 0<br>2<br>0<br>0<br>1 | 0<br>2<br>3<br>1<br>2 | 0<br>2<br>3<br>1<br>2 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>3<br>1 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>4<br>1 | 0<br>2<br>3<br>4<br>2 |

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**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
|  | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>9<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>6      | 0<br>6<br>8<br>9      | 0<br>7<br>4<br>1      | 0<br>4<br>7<br>4      | 0<br>5<br>3<br>0      | 0<br>6<br>6<br>2      | 0<br>4<br>1<br>1      | 0<br>7<br>2<br>3      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>2      | 0<br>7<br>4<br>0      |                       | 0<br>5<br>0<br>8      |  |
| ANIMAL ID  | 0<br>1<br>1<br>3<br>2 | 0<br>1<br>1<br>4<br>1 | 0<br>1<br>1<br>4<br>2 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>2 | 0<br>1<br>1<br>6<br>1 | 0<br>1<br>1<br>6<br>2 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>1<br>7<br>2 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>1<br>8<br>2 | 0<br>1<br>1<br>8<br>1 | 0<br>2<br>0<br>9<br>1 | 0<br>2<br>0<br>9<br>2 | 0<br>2<br>3<br>1<br>1 | 0<br>2<br>3<br>1<br>2 | 0<br>2<br>3<br>2<br>1 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>3<br>1 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>4<br>1 | 0<br>2<br>3<br>4<br>2 |  |

NONE

**GENITAL SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |     |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Clitoral Gland                   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 48 |    |     |     |
| Hyperplasia                      | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 3.0 |     |
| Inflammation                     |   | 3 | 2 |   | 2 |   |   |   |   |   |   | 2 | 3 | 3 | 2 | 3 |   |   | 2 |   |    | 2  | 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  |    | 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 | 2.5 |     |
| Myeloid Cell, Hyperplasia |   |  |  |  |  |  |   |  |  |  |  |   |  |  |  |  |  |  |  |  |    |   | 1   | 2.0 |
| Lymph Node                |   |  |  |  |  |  | + |  |  |  |  | + |  |  |  |  |  |  |  |  |    |   | 6   |     |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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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<br>FEMALE<br>0.35 ACRYL   | DAY ON TEST                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |   |                |
|--|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|----------------|
|  | 0<br>7<br>4<br>4                                | 0<br>7<br>4<br>4      | 0<br>4<br>9<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>6      | 0<br>6<br>7<br>4      | 0<br>7<br>4<br>1      | 0<br>4<br>7<br>4      | 0<br>5<br>3<br>0      | 0<br>6<br>6<br>2      | 0<br>4<br>1<br>1      | 0<br>7<br>2<br>3      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>2      | 0<br>7<br>4<br>0      |                       | 0<br>5<br>0<br>8                          |                |
| ANIMAL ID  | 0<br>1<br>1<br>3<br>2                           | 0<br>1<br>1<br>4<br>1 | 0<br>1<br>1<br>4<br>2 | 0<br>1<br>1<br>4<br>1 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>6 | 0<br>1<br>1<br>6<br>1 | 0<br>1<br>1<br>6<br>7 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>1<br>7<br>2 | 0<br>1<br>1<br>8<br>1 | 0<br>1<br>1<br>8<br>2 | 0<br>1<br>1<br>9<br>1 | 0<br>1<br>1<br>9<br>2 | 0<br>1<br>1<br>9<br>2 | 0<br>2<br>0<br>0<br>1 | 0<br>2<br>0<br>0<br>1 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>3<br>1 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>3<br>1 | 0<br>2<br>3<br>4<br>2                     |                |
| Degeneration, Cystic<br>Mediastinal, Inflammation  |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 3   | 1 2.0<br>1 3.0 |
| Lymph Node, Mandibular<br>Degeneration, Cystic<br>Infiltration Cellular, Plasma Cell   | +     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48                    | 2 2.0<br>6 2.7                            |                |
| Lymph Node, Mesenteric<br>Degeneration, Cystic<br>Hyperplasia, Lymphoid  | +     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 47                    | 3 3.3<br>1 2.0                            |                |
| Spleen<br>Hematopoietic Cell Proliferation<br>Pigmentation<br>Capsule, Proliferation Connective Tissue<br>Red Pulp, Atrophy<br>Red Pulp, Hyperplasia | +     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48                    | 7 3.0<br>6 2.2<br>1 3.0<br>2 2.0<br>2 2.5 |                |
| Thymus<br>Atrophy<br>Cyst  | + + + + + + + M + + + + + M + + + + + + + + + + |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 45                    | 39 2.2<br>1                               |                |

**INTEGUMENTARY SYSTEM**

|  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |                       |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----------------------|
| Mammary Gland<br>Galactocele<br>Lactation<br>Alveolus, Hyperplasia | + + + + + M + + + + + + + + + + + + + + + + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 47 | 2<br>22 2.0<br>29 2.4 |
| Skin   | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 48 |                       |

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

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

|                        |   |     |
|------------------------|---|-----|
| 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 |   |   |   |   | 16 | 1.0 |

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

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

|                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |               |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------|
| Nerve, Degeneration   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1 1.0</b>  |
| Spinal Cord, Lumbar   | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>48</b>     |
| Axon, Degeneration    | 1   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1 1.0</b>  |
| Nerve, Degeneration   | 1     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>16 1.0</b> |
| Spinal Cord, Thoracic | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>48</b>     |
| Axon, Degeneration    | 1     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>15 1.0</b> |

**RESPIRATORY SYSTEM**

|   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |               |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------|
| Lung  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>48</b>     |
| Foreign Body                                | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1</b>      |
| Granuloma                                   | 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>4 2.0</b>  |
| Inflammation                                | 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>3 2.0</b>  |
| Alveolar Epithelium, Hyperplasia            | 4   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1 4.0</b>  |
| Alveolus, Infiltration Cellular, Histiocyte | 2     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>10 1.6</b> |
| Nose  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>48</b>     |
| Foreign Body                                | 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>2 2.5</b>  |
| Inflammation                                | 3   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>8 2.5</b>  |
| Osteopetrosis                               | 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>4 2.3</b>  |
| Trachea                                     | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>48</b>     |

**SPECIAL SENSES SYSTEM**

|          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |
|----------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|
| Ear      | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1</b>  |
| Eye      | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>45</b> |
| Cataract | X   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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<br>FEMALE<br>0.35 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>9<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>6      | 0<br>6<br>8<br>9      | 0<br>7<br>4<br>1      | 0<br>4<br>7<br>4      | 0<br>5<br>3<br>0      | 0<br>6<br>6<br>2      | 0<br>4<br>1<br>1      | 0<br>7<br>2<br>3      | 0<br>5<br>7<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>4<br>2      | 0<br>7<br>4<br>0      |                       | 0<br>5<br>0<br>8      |                       |
| ANIMAL ID  | 0<br>1<br>1<br>3<br>2 | 0<br>1<br>1<br>4<br>1 | 0<br>1<br>1<br>4<br>2 | 0<br>1<br>1<br>5<br>1 | 0<br>1<br>1<br>5<br>2 | 0<br>1<br>1<br>6<br>1 | 0<br>1<br>1<br>6<br>2 | 0<br>1<br>1<br>7<br>1 | 0<br>1<br>1<br>7<br>2 | 0<br>1<br>1<br>8<br>1 | 0<br>1<br>1<br>8<br>2 | 0<br>1<br>1<br>9<br>1 | 0<br>1<br>1<br>9<br>2 | 0<br>1<br>1<br>9<br>1 | 0<br>1<br>1<br>9<br>2 | 0<br>2<br>0<br>0<br>1 | 0<br>2<br>0<br>0<br>1 | 0<br>2<br>3<br>3<br>1 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>3<br>1 | 0<br>2<br>3<br>3<br>2 | 0<br>2<br>3<br>4<br>1 | 0<br>2<br>4<br>4<br>2 |
| Phthisis Bulbi                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Retina, Degeneration                               |                       |                       |                       | 1                     | 1                     | 2                     | 2                     |                       | 1                     | 2                     |                       | 3                     |                       | 4                     | 4                     | 1                     |                       |                       | 1                     |                       | 2                     |                       | 21 1.8                |
| Harderian Gland                                    | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |                       |
| Infiltration Cellular, Lymphocyte                  |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       | 1                     | 1                     |                       | 1                     |                       | 2                     | 2                     | 17 1.5                |
| Inflammation                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       | 1 2.0                 |
| <b>URINARY SYSTEM</b>                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Kidney   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |                       |
| Accumulation, Hyaline Droplet                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |                       |                       |                       |                       |                       |                       |                       |                       | 1 3.0                 |
| Mineralization                                     |                       | 2                     |                       |                       | 2                     | 2                     |                       | 1                     |                       |                       | 1                     |                       |                       | 1                     | 2                     | 3                     | 2                     | 1                     |                       |                       | 2                     | 2                     | 24 1.8                |
| Nephropathy  | 1                     | 2                     | 1                     | 3                     | 2                     |                       | 3                     | 1                     | 2                     | 2                     |                       | 3                     |                       |                       |                       |                       | 1                     |                       | 1                     | 2                     | 2                     | 1                     | 33 1.7                |
| Pigmentation                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 4                     |                       |                       |                       |                       |                       |                       |                       |                       | 2 3.0                 |
| Cortex, Inflammation, Chronic                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 2.0                 |
| Urinary Bladder                                    | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 48                    |                       |
| Dilatation   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       | 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  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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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<br>FEMALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  | ANIMAL ID | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|-----------|----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>2<br>5      | 0<br>7<br>4<br>4      | 0<br>5<br>8<br>6      | 0<br>6<br>4<br>8      | 0<br>5<br>9<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>3      | 0<br>5<br>7<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>0      | 0<br>7<br>4<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>3<br>8<br>3      | 0<br>6<br>9<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>3      | 0<br>5<br>7<br>8      |                       |  |           |                      |
|   | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>2 | 0<br>0<br>3<br>2<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>4<br>1 | 0<br>0<br>3<br>4<br>2 | 0<br>0<br>3<br>5<br>1 | 0<br>0<br>3<br>5<br>2 | 0<br>0<br>7<br>6<br>1 | 0<br>0<br>7<br>6<br>2 | 0<br>0<br>7<br>7<br>1 | 0<br>0<br>7<br>8<br>2 | 0<br>0<br>7<br>8<br>1 | 0<br>0<br>7<br>9<br>2 | 0<br>0<br>8<br>9<br>1 | 0<br>0<br>8<br>9<br>2 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>0<br>1 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>1<br>2<br>2 | 0<br>0<br>1<br>2<br>3 |  |           |                      |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum<br>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 |   |   |
| 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  
 M .. Missing tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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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<br>FEMALE<br>0.175 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | ANIMAL ID | females<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|
|   | 0<br>7<br>4<br>4 | 0<br>7<br>2<br>5 | 0<br>7<br>4<br>4 | 0<br>5<br>8<br>6 | 0<br>6<br>4<br>8 | 0<br>5<br>9<br>6 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>5<br>9<br>3 | 0<br>5<br>7<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>3<br>8 | 0<br>7<br>0<br>0 | 0<br>7<br>4<br>3 | 0<br>7<br>3<br>1 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>3<br>8<br>3 | 0<br>6<br>9<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>3 | 0<br>5<br>3<br>7 | 0<br>7<br>8<br>8 |   |           |                      |
| Bile Duct, Hyperplasia                              | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2 |           |                      |
| Capsule, Fibrosis                                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |   |           |                      |
| Centrilobular, Necrosis                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Hepatocyte, Hyperplasia                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Left Lateral Lobe, Developmental Malformation       |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |   |           |                      |
| Mesentery   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Accessory Spleen                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Fat, Necrosis                                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Oral Mucosa   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Pancreas  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Acinar Cell, Atrophy                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Salivary Glands                                     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Stomach, Forestomach                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Hyperplasia   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Inflammation  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Ulcer   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Stomach, Glandular                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Edema   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Inflammation  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| <b>CARDIOVASCULAR SYSTEM</b>                        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |
| Blood Vessel  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |

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

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<br>FEMALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>2<br>5      | 0<br>7<br>4<br>4      | 0<br>5<br>8<br>6      | 0<br>6<br>4<br>8      | 0<br>5<br>9<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>3      | 0<br>5<br>7<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>0      | 0<br>7<br>7<br>4      | 0<br>7<br>4<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>3<br>8<br>3      | 0<br>6<br>9<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>3<br>3      | 0<br>7<br>7<br>8      |                       |                      |
|   | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>2 | 0<br>0<br>3<br>2<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>4<br>2 | 0<br>0<br>3<br>4<br>1 | 0<br>0<br>3<br>4<br>2 | 0<br>0<br>3<br>5<br>1 | 0<br>0<br>3<br>5<br>2 | 0<br>0<br>7<br>6<br>1 | 0<br>0<br>7<br>7<br>2 | 0<br>0<br>7<br>7<br>1 | 0<br>0<br>7<br>7<br>2 | 0<br>0<br>7<br>8<br>1 | 0<br>0<br>7<br>8<br>2 | 0<br>0<br>7<br>9<br>1 | 0<br>0<br>8<br>9<br>2 | 0<br>0<br>8<br>0<br>1 | 0<br>0<br>8<br>0<br>1 | 0<br>1<br>0<br>1<br>2 | 0<br>1<br>0<br>1<br>2 | 0<br>1<br>0<br>2<br>2 | 0<br>1<br>0<br>2<br>2 | 0<br>1<br>0<br>2<br>1 |                      |

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 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 |   |

**GENERAL BODY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 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<br>FEMALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>2<br>5      | 0<br>7<br>4<br>4      | 0<br>5<br>8<br>6      | 0<br>6<br>4<br>8      | 0<br>5<br>9<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>3      | 0<br>5<br>7<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>0      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>4      | 0<br>3<br>8<br>3      | 0<br>6<br>9<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>3      | 0<br>5<br>7<br>8      |                       |                       |           |                      |
|   | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>2 | 0<br>0<br>3<br>2<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>4<br>2 | 0<br>0<br>3<br>4<br>1 | 0<br>0<br>3<br>5<br>2 | 0<br>0<br>3<br>5<br>1 | 0<br>0<br>3<br>6<br>2 | 0<br>0<br>7<br>6<br>1 | 0<br>0<br>7<br>7<br>2 | 0<br>0<br>7<br>7<br>1 | 0<br>0<br>7<br>7<br>2 | 0<br>0<br>7<br>8<br>1 | 0<br>0<br>7<br>8<br>2 | 0<br>0<br>8<br>9<br>1 | 0<br>0<br>8<br>9<br>2 | 0<br>0<br>8<br>0<br>1 | 0<br>0<br>8<br>1<br>2 | 0<br>0<br>8<br>1<br>2 | 0<br>0<br>8<br>1<br>2 | 0<br>0<br>8<br>2<br>2 | 0<br>0<br>8<br>3<br>2 | 0<br>0<br>8<br>3<br>2 |           |                      |

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alveolus, Hyperplasia | 2 | 4 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 1 | 1 | 1 | 3 | 2 | 4 |   |   |   |   |   |   |   |   |   |   |
| Skin                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation          |   |   |   |   |   |   |   |   |   | 3 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ulcer                 |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |

**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 | 1 | 1 | 1 |
| Spinal Cord, Lumbar       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
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TDMS No. 20313 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.175 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>2<br>5      | 0<br>7<br>4<br>4      | 0<br>5<br>8<br>6      | 0<br>6<br>4<br>8      | 0<br>5<br>9<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>3      | 0<br>5<br>7<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>0      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>3<br>8<br>3      | 0<br>6<br>9<br>0      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>3      | 0<br>5<br>7<br>8      |                       |           |                      |
|   | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>4<br>1 | 0<br>0<br>3<br>4<br>2 | 0<br>0<br>3<br>5<br>1 | 0<br>0<br>3<br>5<br>2 | 0<br>0<br>3<br>6<br>1 | 0<br>0<br>7<br>6<br>2 | 0<br>0<br>7<br>7<br>1 | 0<br>0<br>7<br>7<br>2 | 0<br>0<br>7<br>7<br>1 | 0<br>0<br>7<br>8<br>2 | 0<br>0<br>7<br>8<br>1 | 0<br>0<br>7<br>9<br>2 | 0<br>0<br>8<br>9<br>1 | 0<br>0<br>8<br>0<br>2 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>1<br>1<br>2 | 0<br>0<br>1<br>2<br>2 | 0<br>0<br>1<br>2<br>2 | 0<br>0<br>1<br>3<br>1 |           |                      |

Gliosis, Focal  
 Axon, Degeneration  
 Nerve, Degeneration

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Spinal Cord, Thoracic  
 Axon, Degeneration

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

**RESPIRATORY SYSTEM**

Lung  
 Granuloma  
 Inflammation  
 Alveolus, Infiltration Cellular, Histiocyte

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 2 |   | 2 |   |   |   |   |   | 2 | 1 |   |   |   |   | 2 |   |   |   |   |   |   |   |   | 2 | 2 |   |
|   |   | 1 |   |   |   |   |   | 2 | 1 |   |   |   |   | 2 |   |   |   |   |   |   |   |   | 2 |   |   |

Nose  
 Inflammation  
 Osteopetrosis

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 2 |   |   |   | 2 |   |   |   |   |   |   |   | 1 | 2 |   |   |   |   |   |   |   |   |   |   | 2 |   |

Trachea

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**SPECIAL SENSES SYSTEM**

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

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
|   | 1 | 3 | 4 |   |   | 2 | 2 |   | 2 | 2 |   |   |   | 1 |   |   |   |   | 2 |   |   |   | 1 | 4 |   |

Harderian Gland  
 Infiltration Cellular, Lymphocyte

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 2 |   |   | 2 | 1 |   |   | 2 |   | 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<br>FEMALE<br>0.175 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | ANIMAL ID             | females<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|----------------------|
|   | 0<br>7<br>4<br>4 | 0<br>7<br>2<br>5 | 0<br>7<br>4<br>4 | 0<br>5<br>8<br>6 | 0<br>6<br>4<br>8 | 0<br>5<br>9<br>6 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>5<br>9<br>3 | 0<br>5<br>7<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>3<br>8 | 0<br>7<br>0<br>0 | 0<br>7<br>4<br>3 | 0<br>7<br>3<br>1 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>3<br>8<br>3 | 0<br>6<br>9<br>0 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>3<br>3 | 0<br>5<br>7<br>8 |   |                       |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0 | 0<br>0<br>3<br>1<br>1 |                      |

Lacrimal Gland +  
 Metaplasia 2

**URINARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Mineralization                    |   |   | 1 | 2 |   | 1 |   |   | 1 |   | 1 |   |   |   |   | 1 | 1 |   |   |   |   |   |   | 2 |   |  |
| Nephropathy                       | 1 | 1 | 3 |   | 2 | 1 | 1 | 2 |   | 2 | 1 | 1 |   | 2 |   |   | 2 | 1 |   | 2 | 1 | 3 | 2 |   |   |  |
| Renal Tubule, Necrosis            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |  |
| Urinary Bladder                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Infiltration Cellular, Lymphocyte |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

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

| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.175 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |      |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
|   | 0718        | 0735  | 0774  | 0619  | 0744  | 0774  | 0669  | 0764  | 0668  | 0666  | 0744  | 0409  | 0639  | 0744  | 0563  | 0774  | 0664  | 0776  | 0571  | 0665  |          | 0667 |
| ANIMAL ID   | 00132       | 00114 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111    |      |
|   | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 48   |

ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |             |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48          |
| Intestine Large, Cecum                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48          |
| Intestine Large, Colon                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48          |
| Intestine Large, Rectum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48          |
| Intestine Small, Duodenum                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48          |
| Intestine Small, Ileum<br>Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48<br>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 |   |   |   | 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       |

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

| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.175 ACRYL | DAY ON TEST |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | * TOTALS |     |        |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|--------|
|   | 078         | 075 | 074 | 069 | 074 | 074 | 069 | 074 | 066 | 066 | 074 | 049 | 063 | 074 | 053 | 074 | 044 | 068 | 074 | 057 |          | 066 | 066    |
| ANIMAL ID   | 010         | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 011 | 012 | 012 | 012 | 012 | 012 | 012      | 012 |        |
| 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   |     |     |     |     |     | 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  |
| <b>CARDIOVASCULAR SYSTEM</b>                        |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |        |
| Blood Vessel  | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | +   | 48     |

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 + .. Tissue examined microscopically  
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TDMS No. 20313 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Acrylamide  
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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
|   | 0718        | 0735  | 0744  | 0619  | 0744  | 0774  | 0674  | 0764  | 0667  | 0666  | 0744  | 0469  | 0639  | 0744  | 0563  | 0744  | 0684  | 0744  | 0571  | 0665  |          | 0667 |
| ANIMAL ID   | 00132       | 00114 | 00114 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111    |      |
| Heart   | +           | +     |       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        |      |
| Cardiomyopathy                                      |             |       | 2     |       | 1     | 2     | 1     | 2     |       | 2     | 2     |       | 2     |       |       | 3     | 2     | 1     | 2     |       | 1        | 2    |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |
| <b>ENDOCRINE SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |
| Adrenal Cortex                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        |      |
| Angiectasis   |             |       | 2     |       |       | 2     |       | 2     |       | 1     | 2     |       |       | 2     | 2     | 2     | 3     | 2     |       |       |          | 2    |
| Hyperplasia, Focal                                  |             |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |
| Hypertrophy, Focal                                  | 2           |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       | 3     |       |       | 2     | 4        |      |
| Vacuolization Cytoplasmic                           |             | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       | 4     |          |      |
| Adrenal Medulla                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +    |
| Angiectasis   |             |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |          |      |
| Hyperplasia, Focal                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |
| Islets, Pancreatic                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +    |
| Parathyroid Gland                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +    |
| Pituitary Gland                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +    |
| Angiectasis   |             |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |
| Pars Distalis, Cyst                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |
| Pars Distalis, Hyperplasia                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4     |       |       |          |      |
| Pars Intermedia, Cyst                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |
| Thyroid Gland                                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +    |
| C-cell, Hyperplasia                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       | 1     |       |       |          |      |

**GENERAL BODY SYSTEM**

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.175 ACRYL | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|   | 0718        | 0735 | 0774 | 0661 | 0774 | 0776 | 0677 | 0667 | 0666 | 0774 | 0466 | 0774 | 0667 | 0577 | 0774 | 0776 | 0677 | 0577 | 0776 | 0667 |          |
| ANIMAL ID   | 0032        | 0041 | 0044 | 0055 | 0056 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0099 | 0099 | 0033 | 0033 | 0044 | 0044 | 0044 | 0044 | 0022     |

Tissue NOS + 1

**GENITAL SYSTEM**

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

**HEMATOPOIETIC SYSTEM**

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

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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<br>FEMALE<br>0.175 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |      |   |    |     |     |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|---|----|-----|-----|
|   | 0718        | 0735  | 0744  | 0619  | 0744  | 0744  | 0649  | 0744  | 0668  | 0666  | 0744  | 0469  | 0639  | 0744  | 0563  | 0744  | 0644  | 0768  | 0744  | 0571  |          | 0665  | 0667 |   |    |     |     |
| ANIMAL ID   | 00132       | 00114 | 00114 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111    | 00111 |      |   |    |     |     |
| Mediastinal, Hyperplasia, Lymphoid                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2    | 2 | 1  | 2.0 |     |
| Renal, Hemorrhage                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      | 2 |    | 1   | 2.0 |
| Lymph Node, Mandibular<br>Degeneration, Cystic      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48   |   | 5  | 1.8 |     |
| Hyperplasia, Lymphoid                               |             |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      |   | 2  | 2.0 |     |
| Infiltration Cellular, Plasma Cell                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      |   | 2  | 2.0 |     |
| Lymph Node, Mesenteric<br>Degeneration, Cystic      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48   |   | 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 |  |    |     |
| Galactocele   |   |   |   |   |   | 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 |

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

| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.175 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |      |        |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--------|
|   | 0718        | 0735  | 0744  | 0619  | 0744  | 0744  | 0649  | 0644  | 0668  | 0666  | 0744  | 0409  | 0639  | 0744  | 0563  | 0744  | 0644  | 0764  | 0571  | 0665  |          | 0667 |        |
| ANIMAL ID   | 00132       | 00114 | 00114 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111    |      |        |
| 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  |
| <b>MUSCULOSKELETAL SYSTEM</b>                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |        |
| Bone, Femur   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +    | 48     |
| Osteopetrosis                                       | 3           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |          |      | 2 3.0  |
| Skeletal Muscle                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +    | 48     |
| <b>NERVOUS SYSTEM</b>                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |        |
| 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     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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 1) Minimal 3) Moderate  
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TDMS No. 20313 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Acrylamide  
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| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.175 ACRYL   | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |                          |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------------------------|
|   | 0718        | 0735  | 0744  | 0619  | 0744  | 0774  | 0679  | 0764  | 0668  | 0774  | 0666  | 0744  | 0639  | 0774  | 0564  | 0774  | 0684  | 0744  | 0571  | 0665  |          | 0667                     |
| ANIMAL ID   | 00132       | 00114 | 00114 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111    |                          |
| Gliosis, Focal Axon, Degeneration Nerve, Degeneration |             |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 1.0<br>4 1.0<br>17 1.1 |
| Spinal Cord, Thoracic Axon, Degeneration              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48<br>20 1.0             |
| <b>RESPIRATORY SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |                          |
| Lung  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48                       |
| Granuloma Inflammation                                |             |       | 2     |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       | 2     |          | 9 1.8<br>4 2.0           |
| Alveolus, Infiltration Cellular, Histiocyte           |             |       | 2     |       |       |       |       | 1     | 2     |       |       |       |       |       | 1     |       |       |       | 1     |       |          | 10 1.5                   |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48                       |
| Inflammation Osteopetrosis                            |             |       | 1     |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       | 3        | 7 1.6<br>1 3.0           |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48                       |
| <b>SPECIAL SENSES SYSTEM</b>                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |                          |
| Eye   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +        | 47                       |
| Cataract Phthisis Bulbi                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |          | 3<br>1                   |
| Retina, Degeneration Sclera, Metaplasia, Osseous      |             |       | 1     |       |       | 4     |       |       |       |       |       |       |       | 1     |       |       | 2     |       | 3     |       | 2        | 16 2.2<br>1 2.0          |
| Harderian Gland                                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 48                       |
| Infiltration Cellular, Lymphocyte                     |             |       | 2     |       |       | 2     |       |       | 1     |       |       |       |       |       |       | 2     |       |       | 1     |       |          | 17 1.4                   |

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TDMS No. 20313 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Acrylamide  
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| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.175 ACRYL | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID |   |                 |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|---|-----------------|------|
|   | 0718        | 0735 | 0744 | 0619 | 0744 | 0774 | 0676 | 0776 | 0676 | 0766 | 0666 | 0744 | 0666 | 0774 | 0574 | 0774 | 0666 | 0774 | 0574 | 0774 |           |   | 0666            | 0766 |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0 | 0               |      |
|   | 1           | 3    | 4    | 1    | 4    | 4    | 4    | 4    | 5    | 7    | 4    | 0    | 3    | 4    | 6    | 4    | 4    | 8    | 4    | 7    | 1         | 2 | 7               |      |
|   | 8           | 5    | 4    | 9    | 4    | 4    | 9    | 4    | 8    | 6    | 4    | 9    | 9    | 4    | 3    | 4    | 4    | 4    | 4    | 1    | 6         | 5 | 7               |      |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0 | 0               |      |
|   | 1           | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 2    | 2    | 2    | 2    | 2    | 2         | 2 | 2               |      |
|   | 0           | 0    | 0    | 0    | 0    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 9    | 9    | 3    | 3    | 4    | 4    | 4    | 4         | 4 | 4               |      |
|   | 3           | 4    | 4    | 5    | 5    | 6    | 6    | 7    | 7    | 8    | 8    | 9    | 9    | 0    | 9    | 9    | 0    | 0    | 1    | 1    | 2         | 2 |                 |      |
|   | 2           | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2    | 1    | 2         | 1 | 2               |      |
|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |   | <b>* TOTALS</b> |      |

Lacrimal Gland Metaplasia 1  
1 2.0

**URINARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |               |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Kidney                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b>     |
| Mineralization                    | 2 |   |   |   |   |   |   |   | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 3 |   | 2 | <b>22 1.7</b> |
| Nephropathy                       |   | 2 | 1 |   | 1 |   | 1 | 2 | 2 | 1 | 1 |   |   | 2 |   | 3 | 2 | 4 | 2 |   | 2 | 2 | <b>32 1.8</b> |
| Renal Tubule, Necrosis            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 3.0</b>  |
| Urinary Bladder                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b>     |
| Infiltration Cellular, Lymphocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 1.0</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|  | 0<br>7<br>1<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>8      | 0<br>7<br>4<br>4      | 0<br>5<br>2<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>8<br>6      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>6<br>2<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>7      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>6      |                       |                      |
|  | 0<br>0<br>4<br>6<br>1 | 0<br>0<br>4<br>6<br>2 | 0<br>0<br>4<br>7<br>1 | 0<br>0<br>4<br>7<br>2 | 0<br>0<br>4<br>8<br>1 | 0<br>0<br>4<br>8<br>2 | 0<br>0<br>4<br>9<br>1 | 0<br>0<br>4<br>9<br>2 | 0<br>0<br>5<br>0<br>1 | 0<br>0<br>5<br>0<br>2 | 0<br>0<br>6<br>6<br>1 | 0<br>0<br>6<br>6<br>2 | 0<br>0<br>6<br>7<br>1 | 0<br>0<br>6<br>8<br>2 | 0<br>0<br>6<br>8<br>1 | 0<br>0<br>6<br>9<br>2 | 0<br>0<br>6<br>9<br>1 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>0<br>1 | 0<br>0<br>7<br>0<br>2 | 0<br>1<br>2<br>6<br>1 | 0<br>1<br>2<br>6<br>2 | 0<br>1<br>2<br>7<br>1 | 0<br>1<br>2<br>7<br>2 | 0<br>1<br>2<br>8<br>1 |                      |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon<br>Diverticulum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum<br>Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis  |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Basophilic Focus, Multiple                             |   | X |   | X |   | 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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |                       |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>1<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>8      | 0<br>7<br>4<br>4      | 0<br>5<br>2<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>8<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>6<br>1      | 0<br>7<br>2<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>7<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      |                       |                       |                       |                       |
|  | 0<br>0<br>4<br>6<br>1 | 0<br>0<br>4<br>6<br>2 | 0<br>0<br>4<br>7<br>1 | 0<br>0<br>4<br>4<br>2 | 0<br>0<br>4<br>8<br>1 | 0<br>0<br>4<br>8<br>2 | 0<br>0<br>4<br>9<br>1 | 0<br>0<br>4<br>9<br>2 | 0<br>0<br>5<br>0<br>1 | 0<br>0<br>5<br>0<br>2 | 0<br>0<br>6<br>6<br>1 | 0<br>0<br>6<br>6<br>2 | 0<br>0<br>6<br>7<br>1 | 0<br>0<br>6<br>7<br>2 | 0<br>0<br>6<br>8<br>1 | 0<br>0<br>6<br>8<br>2 | 0<br>0<br>6<br>9<br>1 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>0<br>1 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>0<br>1 | 0<br>0<br>7<br>0<br>2 | 0<br>1<br>2<br>6<br>1 | 0<br>1<br>2<br>6<br>2 | 0<br>1<br>2<br>7<br>1 | 0<br>1<br>2<br>7<br>2 | 0<br>1<br>2<br>8<br>1 | 0<br>1<br>2<br>8<br>2 |

Bile Duct, Hyperplasia 1 2 1 2 3  
 Capsule, Fibrosis 2  
 Centrilobular, Necrosis  
 Left Lateral Lobe, Developmental Malformation 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 1 2 2 2 2

Salivary Glands +

Stomach, Forestomach +  
 Edema 2  
 Hyperplasia 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 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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|  | 0<br>7<br>1<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>8      | 0<br>7<br>4<br>4      | 0<br>5<br>2<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>8<br>6      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>6<br>2<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>7      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>2      |                       |                      |
|  | 0<br>0<br>4<br>6<br>1 | 0<br>0<br>4<br>6<br>2 | 0<br>0<br>4<br>7<br>1 | 0<br>0<br>4<br>7<br>2 | 0<br>0<br>4<br>8<br>1 | 0<br>0<br>4<br>8<br>2 | 0<br>0<br>4<br>9<br>1 | 0<br>0<br>4<br>9<br>2 | 0<br>0<br>5<br>0<br>1 | 0<br>0<br>5<br>0<br>2 | 0<br>0<br>6<br>6<br>1 | 0<br>0<br>6<br>6<br>2 | 0<br>0<br>6<br>7<br>1 | 0<br>0<br>6<br>7<br>2 | 0<br>0<br>6<br>8<br>1 | 0<br>0<br>6<br>8<br>2 | 0<br>0<br>6<br>9<br>1 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>0<br>2 | 0<br>1<br>2<br>6<br>1 | 0<br>1<br>2<br>6<br>2 | 0<br>1<br>2<br>7<br>1 | 0<br>1<br>2<br>7<br>2 |                      |

Cardiomyopathy 2 2 1 2 2 2 2 1 2 1 1 2 2 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  
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 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>1<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>8      | 0<br>7<br>4<br>4      | 0<br>5<br>2<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>8<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>6<br>3      | 0<br>6<br>2<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>7      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>3<br>4      |                       |                       |
|  | 0<br>0<br>4<br>6<br>1 | 0<br>0<br>4<br>6<br>2 | 0<br>0<br>4<br>7<br>1 | 0<br>0<br>4<br>8<br>2 | 0<br>0<br>4<br>8<br>1 | 0<br>0<br>4<br>8<br>2 | 0<br>0<br>4<br>9<br>1 | 0<br>0<br>4<br>9<br>2 | 0<br>0<br>5<br>0<br>1 | 0<br>0<br>5<br>0<br>2 | 0<br>0<br>6<br>6<br>1 | 0<br>0<br>6<br>7<br>2 | 0<br>0<br>6<br>7<br>2 | 0<br>0<br>6<br>8<br>1 | 0<br>0<br>6<br>8<br>2 | 0<br>0<br>6<br>9<br>1 | 0<br>0<br>7<br>9<br>2 | 0<br>0<br>7<br>9<br>1 | 0<br>0<br>7<br>9<br>2 | 0<br>0<br>7<br>9<br>1 | 0<br>1<br>2<br>6<br>2 | 0<br>1<br>2<br>6<br>1 | 0<br>1<br>2<br>7<br>1 | 0<br>1<br>2<br>7<br>2 | 0<br>1<br>2<br>7<br>1 | 0<br>1<br>2<br>8<br>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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Horn, Dilatation                 |   |   | 2 |   | 2 |   |   |   | 2 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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  
 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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|  | 0<br>7<br>1<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>1<br>8      | 0<br>7<br>4<br>4      | 0<br>5<br>2<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>8<br>6      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>6<br>2<br>1      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>1<br>7      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>3      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>6      |                       |                      |
|  | 0<br>0<br>4<br>6<br>1 | 0<br>0<br>4<br>6<br>2 | 0<br>0<br>4<br>7<br>1 | 0<br>0<br>4<br>7<br>2 | 0<br>0<br>4<br>8<br>1 | 0<br>0<br>4<br>8<br>2 | 0<br>0<br>4<br>9<br>1 | 0<br>0<br>4<br>0<br>2 | 0<br>0<br>5<br>0<br>1 | 0<br>0<br>5<br>0<br>2 | 0<br>0<br>6<br>6<br>1 | 0<br>0<br>6<br>6<br>2 | 0<br>0<br>6<br>7<br>1 | 0<br>0<br>6<br>7<br>2 | 0<br>0<br>6<br>8<br>1 | 0<br>0<br>6<br>8<br>2 | 0<br>0<br>6<br>9<br>1 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>0<br>2 | 0<br>1<br>2<br>6<br>1 | 0<br>1<br>2<br>6<br>2 | 0<br>1<br>2<br>7<br>1 | 0<br>1<br>2<br>7<br>2 | 0<br>1<br>2<br>7<br>2 |                      |

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Galactocele           | 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     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
|  | 0<br>7<br>1<br>1 | 0<br>7<br>4<br>4 | 0<br>7<br>1<br>8 | 0<br>7<br>4<br>4 | 0<br>5<br>2<br>6 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>1<br>3 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>5<br>8<br>6 | 0<br>7<br>4<br>3 | 0<br>7<br>4<br>3 | 0<br>6<br>2<br>1 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>1<br>7 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>3 | 0<br>7<br>4<br>3 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>6 |           |                      |
| Infiltration Cellular, Lymphocyte<br>Inflammation    | 1                |                  |                  | 1                |                  | 1                |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  | 1                |                  |                  | 1                |                  | 1                | 1                |           |                      |
| Lacrimal Gland<br>Metaplasia                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Zymbal's Gland                                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| <b>URINARY SYSTEM</b>                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Kidney   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| Hydronephrosis                                       | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Infarct  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Infiltration Cellular, Lymphocyte                    |                  | 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<br>Dilatation                        | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID |                 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
|  | 6           | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 |           |                 |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                 |
|  | 6           | 8 | 4 | 4 | 4 | 4 | 7 | 4 | 4 | 4 | 2 | 8 | 3 | 4 | 4 | 4 | 4 | 2 | 3 | 4 | 4 | 4 | 4 | 0 |           |                 |
|  | 6           | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 0 | 5 | 1 | 4 | 4 | 4 | 4 | 9 | 3 | 4 | 4 | 4 | 0 |   |           |                 |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                 |
|  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |           |                 |
|  | 2           | 2 | 2 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |           |                 |
|  | 8           | 9 | 9 | 0 | 0 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 |           |                 |
|  | 2           | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 5 |           |                 |
|  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>* TOTALS</b> |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |       |
| Intestine Large, Cecum<br>Lymphoid Tissue, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1 2.0 |
| Intestine Large, Colon<br>Diverticulum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 1     |
| Intestine Large, Rectum                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |       |
| Intestine Small, Duodenum                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |       |
| Intestine Small, Ileum<br>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 |   | 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

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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | * TOTALS |     |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|
|  | 06          | 06  | 07  | 07  | 07  | 07  | 06  | 06  | 07  | 07  | 05  | 05  | 07  | 07  | 07  | 07  | 05  | 05  | 07  | 07  |          | 07  |
| ANIMAL ID  | 006         | 008 | 004 | 004 | 004 | 004 | 007 | 004 | 004 | 004 | 002 | 008 | 003 | 004 | 004 | 004 | 002 | 003 | 004 | 004 | 004      | 000 |
| 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       |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |
| Mesentery  | +           |     | +   |     |     | +   | +   |     |     |     |     | +   |     |     |     |     |     |     |     | +   |          |     |
| Fat, Necrosis  | 3           |     | 3   |     |     | 2   | 3   |     |     |     |     | 3   |     |     |     |     |     |     |     | 2   |          |     |
| Oral Mucosa  |             |     |     | +   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |
| Pancreas   | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | +   |
| Polyarteritis  |             |     |     |     |     |     |     |     |     |     |     | 4   |     |     |     |     |     |     |     |     |          |     |
| Acinar Cell, Atrophy                                 |             |     |     |     |     | 2   |     | 1   |     |     |     |     |     |     | 2   | 2   |     |     |     | 1   | 1        |     |
| Salivary Glands                                      | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | +   |
| Stomach, Forestomach                                 | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | +   |
| Edema  |             |     |     |     |     |     |     | 4   |     |     |     |     |     |     |     |     |     |     |     |     |          |     |
| Hyperplasia  |             |     |     |     |     |     |     |     |     |     |     | 2   |     |     |     |     |     |     |     |     |          |     |
| Ulcer  |             |     |     |     |     |     | 2   |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |
| Stomach, Glandular                                   | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | +   |
| <b>CARDIOVASCULAR SYSTEM</b>                         |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |
| 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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |        |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
|  | 0606        | 0608  | 0607  | 0604  | 0607  | 0607  | 0607  | 0606  | 0606  | 0607  | 0607  | 0605  | 0605  | 0607  | 0607  | 0607  | 0607  | 0605  | 0605  | 0607  |          | 0607  | 0607   |
| ANIMAL ID  | 01282       | 01122 | 01112 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111 | 01111    | 01111 | 01111  |
| 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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
|  | 06          | 06 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | 05 | 05 | 07 | 07 | 07 | 07 | 05 | 05 | 07 | 07 |          |
| ANIMAL ID  | 01          | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01       |
|  | 22          | 22 | 22 | 33 | 33 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 66 | 66 | 22 | 22 | 22 | 22 | 22 | 22 | 22       |
|  | 88          | 99 | 90 | 00 | 06 | 66 | 67 | 77 | 88 | 99 | 99 | 00 | 01 | 02 | 01 | 02 | 03 | 04 | 04 | 05 | 05       |
|  | 21          | 22 | 21 | 21 | 22 | 12 | 11 | 21 | 21 | 21 | 22 | 11 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 22       |

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

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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |     |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|-----|
|  | 06          | 06 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | 05 | 05 | 07 | 07 | 07 | 07 | 05 | 05 | 07 | 07 |          | 07 |     |
| ANIMAL ID  | 01          | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01       |    |     |
| Lymph Node   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | 9  |     |
| Lumbar, Degeneration, Cystic                         |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | 2  | 2.5 |
| Mediastinal, Medulla, Sinus, Dilatation              |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | 1  | 3.0 |
| Renal, Hemorrhage                                    |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | 2  | 2.0 |
| Renal, Hyperplasia, Lymphoid                         |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | 2  | 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                     |             |    | 2  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | 1  | 2.0 |
| Lymphocyte, Atrophy                                  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | 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  | 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  
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1-4 .. Lesion qualified as:  
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TDMS No. 20313 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Acrylamide  
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Date Report Requested: 01/15/2010  
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |        |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
|  | 0606        | 0608  | 0607  | 0604  | 0607  | 0607  | 0607  | 0606  | 0606  | 0607  | 0607  | 0605  | 0605  | 0607  | 0607  | 0607  | 0607  | 0605  | 0605  | 0607  |          | 0607  | 0607   |
| ANIMAL ID  | 01282       | 01122 | 01122 | 01133 | 01133 | 01155 | 01155 | 01155 | 01155 | 01155 | 01155 | 01155 | 01155 | 01166 | 01166 | 01122 | 01122 | 01122 | 01122 | 01122 | 01122    | 01122 | 01122  |
| Galactocele  |             |       |       |       |       | X     |       |       |       | X     |       |       |       | X     |       |       |       |       |       |       |          | X     | 9      |
| Lactation  |             | 2     | 2     | 2     | 3     | 2     |       | 2     |       | 2     |       | 2     | 2     |       | 1     | 3     | 2     | 3     | 2     | 2     | 3        | 3     | 30 2.3 |
| Alveolus, Hyperplasia                                |             | 2     | 2     | 2     | 2     | 2     | 3     | 2     | 2     | 2     |       | 2     | 2     | 2     |       | 2     |       | 3     |       | 2     | 2        | 3     | 37 2.2 |
| Skin   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48     |
| Inflammation   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2 2.5  |
| Epidermis, Necrosis                                  |             |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |          |       | 2 2.0  |
| <b>MUSCULOSKELETAL SYSTEM</b>                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |        |
| Bone, Femur  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48     |
| Osteopetrosis  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       |       |          |       | 2 3.5  |
| Skeletal Muscle                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48     |
| <b>NERVOUS SYSTEM</b>                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |        |
| Brain, Brain Stem                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48     |
| Hypothalamus, Compression                            |             |       |       |       | 3     | 2     |       |       |       | 2     |       |       |       | 2     |       | 2     |       | 3     |       |       |          |       | 13 2.5 |
| Brain, Cerebellum                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48     |
| Brain, Cerebrum                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48     |
| Gliosis, Focal                                       |             |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |          |       | 1 2.0  |
| Ventricle, Dilatation                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |          |       | 2 2.0  |
| Peripheral Nerve, Sciatic                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48     |
| Axon, Degeneration                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1     | 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  
 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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
|  | 0606        | 0608  | 0607  | 0604  | 0607  | 0607  | 0607  | 0606  | 0606  | 0607  | 0607  | 0605  | 0605  | 0607  | 0607  | 0607  | 0607  | 0605  | 0605  | 0607  |          | 0607  | 0607  |
| ANIMAL ID  | 01282       | 01122 | 01112 | 01113 | 01115 | 01115 | 01115 | 01115 | 01115 | 01115 | 01115 | 01115 | 01115 | 01116 | 01116 | 01122 | 01122 | 01122 | 01122 | 01123 | 01124    | 01124 | 01125 |
| Axon, Degeneration                                   |             |       | 1     |       | 1     | 1     |       | 1     |       |       |       |       |       | 1     |       |       |       |       | 1     | 1     | 1        | 1     |       |
| Spinal Cord, Lumbar                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     |
| Axon, Degeneration                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |          | 1     |       |
| Nerve, Degeneration                                  |             |       |       | 1     | 1     | 1     | 1     |       | 1     | 1     |       |       |       | 1     |       |       | 1     |       | 1     | 2     | 2        |       |       |
| Spinal Cord, Thoracic                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     |
| Axon, Degeneration                                   | 1           |       | 1     |       | 1     | 1     | 1     |       | 1     | 1     | 1     |       |       |       |       | 1     |       |       | 1     | 1     |          | 1     |       |
| Nerve, Degeneration                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |
| <b>RESPIRATORY SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |
| Lung   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     |
| Granuloma  |             |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2     |       |
| Inflammation   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |
| Alveolus, Infiltration Cellular, Histiocyte          | 1           |       |       |       |       |       |       |       |       |       |       | 3     |       | 2     |       |       |       |       |       |       | 2        |       |       |
| Nose   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     |
| Inflammation   |             | 2     |       |       |       |       |       |       |       |       |       |       |       | 2     | 2     |       |       |       |       |       | 1        |       |       |
| Osteopetrosis  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       |       |          |       |       |
| Trachea  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     |
| <b>SPECIAL SENSES SYSTEM</b>                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |
| Eye  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     |
| Cataract   | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |
| Retina, Degeneration                                 | 4           |       |       | 2     |       | 1     | 2     | 2     | 2     |       |       |       | 2     |       |       |       |       |       |       |       |          |       |       |
| Harderian Gland                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     |
| Atrophy  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 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<br>FEMALE<br>0.0875 ACRYL | DAY ON TEST |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | * TOTALS |     |         |            |     |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|---------|------------|-----|
|  | 06          | 06  | 07  | 07  | 07  | 07  | 06  | 06  | 07  | 07  | 05  | 05  | 07  | 07  | 07  | 07  | 05  | 05  | 07  | 07  |          | 07  | 07      |            |     |
| ANIMAL ID  | 006         | 008 | 004 | 004 | 004 | 004 | 007 | 005 | 004 | 004 | 002 | 008 | 003 | 004 | 004 | 004 | 002 | 003 | 004 | 004 | 004      | 000 |         |            |     |
| Infiltration Cellular, Lymphocyte Inflammation       | 1           |     |     | 1   | 2   |     |     |     |     | 1   |     |     |     | 2   |     | 1   | 1   |     | 2   |     | 1        |     | 17<br>1 | 1.2<br>2.0 |     |
| Lacrimal Gland Metaplasia                            |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     | 1       | 1          | 2.0 |
| Zymbal's Gland                                       |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     | 1       |            |     |
| <b>URINARY SYSTEM</b>                                |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |         |            |     |
| Kidney   | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | +   | 48      |            |     |
| Hydronephrosis                                       |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |         | 1          | 2.0 |
| Infarct  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |         | 1          | 2.0 |
| Infiltration Cellular, Lymphocyte                    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |         | 1          | 2.0 |
| Mineralization                                       |             |     |     | 2   |     |     |     |     | 1   |     | 2   |     | 2   |     | 2   | 2   |     | 2   | 2   | 2   | 1        | 3   | 21      | 1.8        |     |
| Nephropathy  | 1           |     | 2   |     | 4   | 3   |     |     |     | 3   |     | 4   | 1   | 2   | 2   | 1   | 3   |     | 2   | 2   | 2        | 1   | 2       | 34         | 2.1 |
| Urinary Bladder Dilatation                           | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | +   | 48      | 1          | 4.0 |

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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

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

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Lymphoid Tissue, Hyperplasia<br>Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Intestine Small, Duodenum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum<br>Lymphoid Tissue, Hyperplasia                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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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

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<br>FEMALE<br>CONTROL WATER | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID             | females<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|----------------------|
|   | 0<br>7<br>4<br>4 | 0<br>6<br>9<br>6 | 0<br>7<br>3<br>2 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 |                       |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>1<br>6<br>1 |                      |

|                                   |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
|-----------------------------------|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|--|
| Cardiomyopathy                    | 2 |  | 2 |  | 2 |  | 2 |  | 2 |  | 2 |  | 2 |  | 2 |  | 2 |  | 2 |  | 2 |  | 2 |  |
| Infiltration Cellular, Lymphocyte |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| Mineralization                    |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |
| Atrium, Thrombosis                |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |   |  |

**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                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Cyst               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Hyperplasia        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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<br>FEMALE<br>CONTROL WATER | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...)  |                  |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|-----------------------|------------------|
|   | 0<br>7<br>4<br>4 | 0<br>6<br>9<br>6 | 0<br>7<br>3<br>2 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 |           |                       | 0<br>7<br>4<br>4 |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0         | 0<br>0<br>1<br>6<br>1 |                  |
| C-cell, Hyperplasia                                   |                  |                  |                  |                  | 4                |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  | 1                |                  |                  | 1                |                  |                  | 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              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**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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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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |
|--|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|  |                  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
| <b>FISCHER 344 RATS-NCTR RATS<br/>FEMALE</b> |                  | 7           | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                      |
|  |                  | 4           | 9 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                      |
| <b>CONTROL WATER</b>                         |                  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
|  | <b>ANIMAL ID</b> | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
|  |                  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 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 |                      |
|  |                  | 1           | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |                      |

**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 | 2 | 3 | 2 |   | 2 | 2 |
| Skin                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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:  
 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<br>FEMALE<br>CONTROL WATER | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID | females<br>(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
|   | 0<br>7<br>4<br>4 | 0<br>6<br>9<br>6 | 0<br>7<br>3<br>2 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>5<br>1<br>8 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>6<br>3 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>8<br>7 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4      |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>1<br>6<br>1 |           |                      |

Ventricle, Dilatation

Peripheral Nerve, Sciatic  
Axon, Degeneration

Spinal Cord, Cervical  
Axon, Degeneration  
Nerve, Degeneration

Spinal Cord, Lumbar  
Axon, Degeneration  
Nerve, Degeneration

Spinal Cord, Thoracic  
Axon, Degeneration  
Nerve, Degeneration

**RESPIRATORY SYSTEM**

Lung  
Granuloma  
Inflammation  
Alveolar Epithelium, Hyperplasia  
Alveolus, Infiltration Cellular, Histiocyte

Nose  
Inflammation  
Osteopetrosis

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  
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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  
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 Lab: NCTR

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

**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 |   |

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

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

**ALIMENTARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     |
| Intestine Large, Cecum            | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     |
| Lymphoid Tissue, Hyperplasia      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0  |
| Mucosa, Hyperplasia               |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |
| Intestine Large, Colon            | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46     |
| Intestine Large, Rectum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     |
| Intestine Small, Duodenum         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     |
| Intestine Small, Ileum            | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     |
| Lymphoid Tissue, Hyperplasia      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 3.0  |
| Intestine Small, Jejunum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 46     |
| Liver                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     |
| Angiectasis                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 1 1.0  |
| Basophilic Focus                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1      |
| Basophilic Focus, Multiple        | X | X | X |   | X | X | X |   | X | X | X |   | X | X | X |   | X | X |   |   | X |   | 29     |
| Eosinophilic Focus                |   | X | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   | 7      |
| Eosinophilic Focus, Multiple      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1      |
| Granuloma                         |   | 2 |   |   |   | 2 | 2 |   | 1 | 2 | 2 |   | 1 |   | 2 | 1 | 1 |   |   |   | 2 |   | 18 1.7 |
| Hematopoietic Cell Proliferation  |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   | 1 3.0  |
| Hepatodiaphragmatic Nodule        |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   | 3      |
| Infiltration Cellular, Lymphocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0  |
| Regeneration                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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<br>FEMALE<br>CONTROL WATER | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |     |     |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|-----|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>9<br>8      | 0<br>5<br>5<br>3      | 0<br>5<br>7<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>6<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>7<br>0      | 0<br>6<br>8<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>0      |                       | 0<br>7<br>4<br>4      |     |     |
| ANIMAL ID   | 0<br>1<br>7<br>1<br>2 | 0<br>1<br>7<br>1<br>2 | 0<br>1<br>7<br>2<br>2 | 0<br>1<br>7<br>3<br>1 | 0<br>1<br>7<br>3<br>2 | 0<br>1<br>7<br>4<br>1 | 0<br>1<br>7<br>4<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>2<br>2 | 0<br>2<br>0<br>3<br>2 | 0<br>2<br>0<br>3<br>2 | 0<br>2<br>0<br>3<br>2 | 0<br>2<br>4<br>4<br>1 | 0<br>2<br>4<br>4<br>2 | 0<br>2<br>4<br>8<br>1 | 0<br>2<br>4<br>9<br>2 | 0<br>2<br>4<br>9<br>1 | 0<br>2<br>4<br>9<br>2 | 0<br>2<br>5<br>0<br>1 | 0<br>2<br>5<br>0<br>2 |     |     |
| 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   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 5   | 2.6 |
| Pancreas  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 48  |     |
| Accessory Spleen                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1   |     |
| Infiltration Cellular, Lymphocyte                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1   | 3.0 |
| Acinar Cell, Atrophy                                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 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

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<br>FEMALE<br>CONTROL WATER | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>9<br>8      | 0<br>5<br>5<br>3      | 0<br>5<br>7<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>4<br>6      | 0<br>7<br>4<br>7      | 0<br>6<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>7<br>0      | 0<br>6<br>8<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>0      |                       | 0<br>7<br>4<br>4      |
| ANIMAL ID   | 0<br>1<br>7<br>1<br>2 | 0<br>1<br>7<br>1<br>2 | 0<br>1<br>7<br>2<br>2 | 0<br>1<br>7<br>3<br>1 | 0<br>1<br>7<br>3<br>2 | 0<br>1<br>7<br>4<br>1 | 0<br>1<br>7<br>4<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 |

|                                   |   |   |   |   |  |   |   |  |   |   |   |  |   |   |   |   |   |   |   |   |  |   |   |    |     |
|-----------------------------------|---|---|---|---|--|---|---|--|---|---|---|--|---|---|---|---|---|---|---|---|--|---|---|----|-----|
| 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<br>FEMALE<br>CONTROL WATER | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS   |   |   |  |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------|---|---|--|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |            | 0 |   |  |
| ANIMAL ID   | 7           | 7 | 6 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 5          | 7 |   |  |
|   | 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 | 0          | 4 | 4 |  |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0          | 0 | 0 |  |
|   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2          | 2 | 2 |  |
|   | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 4 | 4          | 5 | 5 |  |
|   | 1           | 2 | 2 | 3 | 3 | 4 | 4 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 7 | 7 | 8 | 8 | 9 | 9 | 0          | 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 |  |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>15</b>  |   |   |  |
| C-cell, Hyperplasia                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1.6</b> |   |   |  |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

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

**HEMATOPOIETIC SYSTEM**

|             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |           |  |
|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--|
| Bone Marrow | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>48</b> |  |
|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--|

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

+ .. Tissue 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<br>FEMALE<br>CONTROL WATER | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                  |   |     |     |     |     |     |   |     |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|---|-----|-----|-----|-----|-----|---|-----|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>9<br>8      | 0<br>5<br>5<br>3      | 0<br>5<br>7<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>6<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>7<br>0      | 0<br>6<br>8<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>0      |                       | 0<br>7<br>4<br>4 |   |     |     |     |     |     |   |     |
| ANIMAL ID   | 0<br>1<br>7<br>1<br>2 | 0<br>1<br>7<br>1<br>2 | 0<br>1<br>7<br>2<br>2 | 0<br>1<br>7<br>3<br>1 | 0<br>1<br>7<br>3<br>2 | 0<br>1<br>7<br>4<br>1 | 0<br>1<br>7<br>4<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>2<br>2 | 0<br>2<br>0<br>3<br>2 | 0<br>2<br>0<br>3<br>2 | 0<br>2<br>0<br>4<br>1 | 0<br>2<br>0<br>4<br>2 | 0<br>2<br>4<br>7<br>2 | 0<br>2<br>4<br>8<br>1 | 0<br>2<br>4<br>9<br>2 | 0<br>2<br>4<br>9<br>2 | 0<br>2<br>5<br>0<br>1 | 0<br>2<br>5<br>0<br>2 |                  |   |     |     |     |     |     |   |     |
| 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                     | 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  
 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<br>FEMALE<br>CONTROL WATER | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>9<br>8      | 0<br>5<br>5<br>3      | 0<br>5<br>7<br>2      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>0<br>6      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>6<br>4<br>6      | 0<br>7<br>4<br>4      | 0<br>6<br>7<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>4<br>7<br>0      | 0<br>6<br>8<br>4      | 0<br>7<br>4<br>4      | 0<br>7<br>4<br>4      | 0<br>5<br>9<br>0      |                       | 0<br>7<br>4<br>4      |
| ANIMAL ID   | 0<br>1<br>7<br>1<br>2 | 0<br>1<br>7<br>1<br>2 | 0<br>1<br>7<br>2<br>2 | 0<br>1<br>7<br>3<br>1 | 0<br>1<br>7<br>3<br>2 | 0<br>1<br>7<br>4<br>1 | 0<br>1<br>7<br>4<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>1<br>2 | 0<br>2<br>0<br>2<br>2 | 0<br>2<br>0<br>3<br>2 | 0<br>2<br>0<br>3<br>2 | 0<br>2<br>0<br>4<br>1 | 0<br>2<br>0<br>4<br>2 | 0<br>2<br>0<br>4<br>2 | 0<br>2<br>0<br>4<br>2 | 0<br>2<br>0<br>4<br>2 | 0<br>2<br>0<br>4<br>2 | 0<br>2<br>0<br>4<br>2 | 0<br>2<br>0<br>5<br>1 | 0<br>2<br>0<br>5<br>2 |

**INTEGUMENTARY SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Mammary Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |     |
| Galactoceles           |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6  |     |
| Lactation              | 1 |   | 2 | 3 | 3 | 1 |   | 2 | 2 | 1 |   | 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  | 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  
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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<br>FEMALE<br>CONTROL WATER              | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | * TOTALS |                  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------|------------------|
|  | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>9<br>8 | 0<br>5<br>5<br>3 | 0<br>5<br>7<br>2 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>0<br>6 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>6<br>6<br>4 | 0<br>7<br>4<br>7 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>4<br>7<br>0 | 0<br>6<br>8<br>4 | 0<br>7<br>4<br>4 | 0<br>7<br>4<br>4 | 0<br>5<br>9<br>0 |           |          | 0<br>7<br>4<br>4 |
| Ventricle, Dilatation  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           | 1 2.0    |                  |
| Peripheral Nerve, Sciatic<br>Axon, Degeneration                    | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | 48       | 4 1.0            |
| Spinal Cord, Cervical<br>Axon, Degeneration<br>Nerve, Degeneration | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | 48       | 22 1.0<br>2 1.0  |
| Spinal Cord, Lumbar<br>Axon, Degeneration<br>Nerve, Degeneration   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | 48       | 1 1.0<br>16 1.1  |
| Spinal Cord, Thoracic<br>Axon, Degeneration<br>Nerve, Degeneration | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | 48       | 18 1.0<br>1 1.0  |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |                                   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----------------------------------|
| Lung<br>Granuloma<br>Inflammation<br>Alveolar Epithelium, Hyperplasia<br>Alveolus, Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 6 1.3<br>1 2.0<br>1 2.0<br>13 1.8 |
| Nose<br>Inflammation<br>Osteopetrosis  | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | 5 2.2<br>3 2.3                    |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

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

**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 | 44 | 1.8 |
| Urinary Bladder                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |     |
| Dilatation                        |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0 |
| Infiltration Cellular, Lymphocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.0 |

\*\*\* END OF REPORT \*\*\*

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 X .. Lesion present  
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