

**Experiment Number:** 96014 - 05  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Water disinfection byproducts (Bromodichloroacetic acid)  
**CAS Number:** 71133-14-7

**Date Report Requested:** 03/05/2013  
**Time Report Requested:** 08:02:51  
**First Dose M/F:** 10/26/06 / 10/27/06  
**Lab:** BAT

F1\_RD\_Rev. 1

<b>NTP Study Number:</b>	C96014B		
<b>Lock Date:</b>	11/17/2009		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	25021 TSAC	25020 NATD	25019 MSAC
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include ALL		
<b>Study Gender:</b>	Both		
<b>TDMSE Version:</b>	3.0.1.1_001		
<b>PWG Approval Date:</b>	NONE		

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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	males (cont...)
FISCHER 344-TACONIC RATS MALE		7	6	5	6	6	6	7	7	5	5	6	7	7	6	7	5	4	7	3	7	7	2	7	7	
0 mg/L		2	4	8	8	1	8	2	2	6	7	5	1	2	0	2	3	7	2	8	2	2	2	3	2	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	5	6	7	8	9	0	1

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan							X					X												
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus							X						X	X				X				X		
Clear Cell Focus	X						X	X				X				X		X				X		X
Degeneration, Cystic							1								1			1		1	1	1		1
Eosinophilic Focus							X							X				X						
Fatty Change		2								4							2			2				
Hematopoietic Cell Proliferation																								
Hepatodiaphragmatic Nodule				X				X																
Inflammation, Chronic Active	1		1			1	1	1	1	1			1		1	1	1	1			1	1	1	1
Mixed Cell Focus	X												X											
Necrosis															2									
Pigmentation, Hemosiderin																	1							

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FISCHER 344-TACONIC RATS MALE 0 mg/L	DAY ON TEST																				males (cont...)				
	0726	0727	0728	0728	0728	0728	0728	0728	0728	0728	0728	0728	0728	0728	0728	0728	0728	0728	0728	0728		0728			
ANIMAL ID	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000				
Bile Duct, Cyst																									
Bile Duct, Hyperplasia	2	1	1	1	2	2	2	2	1	1	1	1	1	2	1	2	1	2		2	2	2	1	1	1
Mesentery	+																				+	+			+
Fat, Necrosis	1																				1	1			2
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	4	1	1	2	1				1	2					1		1					4	1		1
Cytoplasmic Alteration Acinus, Hyperplasia					4										1										2
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Metaplasia, Serous																									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation				1	4					4					2		2				4				2
Perforation																						X			
Ulcer				4					4								3								
Epithelium, Dysplasia																									
Epithelium, Hyperplasia				4											2		3				4				
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Erosion																									
Hyperplasia, Focal																									
Inflammation				2	1										2										1
Mineralization																									
Ulcer							1																		1
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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FISCHER 344-TACONIC RATS MALE	DAY ON TEST																								males (cont...)	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0 mg/L	7	6	5	6	6	6	7	7	5	5	6	7	7	6	7	5	4	7	3	7	7	6	7	7		
	2	7	8	8	1	8	2	2	6	7	5	1	2	0	2	3	7	2	8	2	2	2	3	2	2	
	6	4	8	0	7	3	6	6	8	9	7	9	6	8	6	7	7	7	3	7	7	8	7	7		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	5	6	7	8	9	0		

Inflammation

Tooth  
 Degeneration

**CARDIOVASCULAR SYSTEM**

Blood Vessel Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	3							2						2								2		1
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2		1	3	1	1	3	3	1		2	2	2	2	2	2	2	1	2	1	3	2	2	1
Atrium, Thrombosis								2				3		3										
Pericardium, Inflammation, Chronic Active							3																	

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									
Degeneration, Cystic																									
Hyperplasia											1		1					1							
Hypertrophy			2																						
Vacuolization Cytoplasmic				1				2								1			3					2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	3	1					2					1			4			2			2	4	1		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																		2						2	3

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

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy									4																		
Pars Distalis, Atrophy																											
Pars Distalis, Hyperplasia								4				1	1	3		1										1	

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

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy			2							2	3		3			1		2									
Inflammation			1																								
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																											2
Inflammation															3		3										
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy										2																	
Inflammation											1	1	1	1		1	2	1	2	1		2	2	1	2	3	
Epithelium, Hyperplasia								1							1					1							
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy										3																	

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	6	5	6	6	6	7	7	5	5	6	7	7	6	7	5	4	7	3	7	7	6	
	2	7	8	8	1	8	2	2	6	7	5	1	2	0	2	3	7	2	8	2	2	3	2
	6	4	8	0	7	3	6	6	8	9	7	9	6	8	6	7	7	3	7	7	8	7	7
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	5	6	7	8	9
Inflammation	1																						
Testes	+																						
Atrophy	4																						
Inflammation	2																						
Germinal Epithelium, Degeneration	2																						
Interstitial Cell, Hyperplasia	3																						
<b>HEMATOPOIETIC SYSTEM</b>																							
Bone Marrow	+																						
Angiectasis	1																						
Hyperplasia	3																						
Myelofibrosis	2																						
Lymph Node	+																						
Renal, Infiltration Cellular, Plasma Cell	2																						
Lymph Node, Mandibular	+																						
Ectasia	3																						
Lymph Node, Mesenteric	+																						
Atrophy	2																						
Spleen	+																						
Hematopoietic Cell Proliferation	1																						
Infarct	1																						
Pigmentation, Hemosiderin	1																						
Stromal Hyperplasia	X																						
Thymus	+																						

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	07	06	05	06	06	06	07	07	05	05	06	07	07	06	07	05	04	07	03	07	07	06	07	07	
0 mg/L	2	7	8	8	1	8	2	2	6	7	5	1	2	0	2	3	7	2	8	2	2	2	3	2	2
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	01	02	03	04	05	06	07	08	09	00	01	01	01	01	01	01	01	01	02	02	02	02	02	03	
Atrophy	4	4	3	4	4	4	3	3	4	3	4		3	3	3	2	3	3	3	3	3	3	3	4	
																								2	
																								3	

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	1																			1	2	1		
Inflammation, Chronic							2																	
Inflammation, Chronic Active	2																							
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																								
Inflammation																3								
Ulcer															2									
Epidermis, Hyperkeratosis																								
Epidermis, Hyperplasia																								
Epidermis, Hyperplasia, Squamous																								

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Osteodystrophy																								
Osteopetrosis	2				1									2										
Skeletal Muscle													+								+	+		

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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**RESPIRATORY SYSTEM**

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0 mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	5	6	7	8	

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active					2		1	1				1	1	1					1	1		1
Mineralization											1											
Thrombosis																						
Alveolar Epithelium, Hyperplasia													2	2								
Alveolus, Infiltration Cellular, Histiocyte							1	1								1				1	1	1
Bronchiole, Hyperplasia								2														

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Foreign Body	X						X	X														X
Inflammation	1						1	1			2		1									2
Glands, Respiratory Epithelium, Hyperplasia																						
Respiratory Epithelium, Hyperplasia	2					1			1				2									

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**SPECIAL SENSES SYSTEM**

Ear																						
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Iris, Inflammation						1																
Lens, Cataract																						
Retina, Degeneration																2						
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation											3											
Zymbal's 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



Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

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

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accumulation, Hyaline Droplet						1					4													
Mineralization										1	1	1				1								
Nephropathy	4	2	3	4	1	4	3	4	4	3	2	4	2	4	3	3	4		4	3	3	4	2	4
Cortex, Cyst					4																			
Cortex, Inflammation, Focal																								
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																								

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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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																								* TOTALS
	0644	0727	0664	0588	0688	0722	0594	0554	0664	0727	0667	0777	0667	0777	0667	0588	0777	0667	0588	0777	0667	0588	0777	0667	
0 mg/L	00032	00033	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	00051	00052	00053	00054	00055	00056	00056	50

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan			X		X																	X		X	1 2.0 6
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basophilic Focus	X					X				X									X	X	X	X		X	13
Clear Cell Focus		X			X	X			X	X			X						X		X	X		X	19
Degeneration, Cystic			1									1	1						1		1				12 1.0
Eosinophilic Focus									X				X										X		6
Fatty Change				2			1	3								2									8 2.3
Hematopoietic Cell Proliferation									1																1 1.0
Hepatodiaphragmatic Nodule		X										X			X			X		X	X		X		9
Inflammation, Chronic Active	1	1			1	2	1		1	1	1		1	1	1			1	1	1	1	1	1	1	32 1.0
Mixed Cell Focus																					X				3
Necrosis												2													2 2.0
Pigmentation, Hemosiderin																									1 1.0

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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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

FISCHER 344-TACONIC RATS MALE 0 mg/L	DAY ON TEST																								* TOTALS	
	0644	0727	0664	0588	0688	0722	0594	0554	0664	0727	0666	0777	0777	0666	0555	0666	0666	0777	0555	0777	0777	0666	0666			
ANIMAL ID	00032	00033	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	00051	00052	00053	00054	00055	00056			
Bile Duct, Cyst																								1	1	1.0
Bile Duct, Hyperplasia	1	2	2	1	2	1	1	1	1	2	2	1	2	2	1	1	2	2	1	1	2	1	2	1	49	1.4
Mesentery																									7	
Fat, Necrosis																									7	1.4
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																									18	1.5
Cytoplasmic Alteration	2																							1	2.0	
Acinus, Hyperplasia																								4	2.5	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Metaplasia, Serous																									1	2.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation	3																							13	2.6	
Perforation																								1		
Ulcer	2																							6	3.0	
Epithelium, Dysplasia																								1	1.0	
Epithelium, Hyperplasia	3																							12	2.6	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Erosion																								1	2.0	
Hyperplasia, Focal																								1	1.0	
Inflammation																								7	1.3	
Mineralization																								1	2.0	
Ulcer																								2	1.0	
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																				* TOTALS								
	0 6 4 4	0 7 2 7	0 6 6 4	0 5 8 9	0 6 8 7	0 7 2 6	0 5 9 3	0 5 4 4	0 6 6 4	0 7 2 7	0 6 0 7	0 6 7 8	0 7 2 7	0 6 1 0	0 5 6 1	0 6 8 0	0 6 7 1	0 6 6 4	0 7 2 7	0 5 8 0		0 7 2 7	0 6 0 2	0 6 6 4					
0 mg/L	ANIMAL ID																												
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	6					
	2	3	6	7	8	9	0	1	2	3	4	5	6	7	8	2	3	4	0	1	2	3	4	5	6				
Inflammation																					1	1 1.0							
Tooth Degeneration																					+	1							
																					1	1 1.0							
<b>CARDIOVASCULAR SYSTEM</b>																													
Blood Vessel Inflammation	+																				50	5 2.0							
Heart	+																				50								
Cardiomyopathy	1	2	2	1	2	3	2	1	3	3	2	3	2	2	1	2	3	1	2	3	2	2	2	2	47	2.0			
Atrium, Thrombosis																					1	5 2.0							
Pericardium, Inflammation, Chronic Active																					1	1 3.0							
<b>ENDOCRINE SYSTEM</b>																													
Adrenal Cortex	+																				50								
Atrophy																					2	1 2.0							
Degeneration, Cystic																					2	1 2.0							
Hyperplasia																					3	5 1.4							
Hypertrophy																					1	1 2.0							
Vacuolization Cytoplasmic			2	4	1			1		1		2			1				1	2					14	1.7			
Adrenal Medulla	+																				50								
Hyperplasia																					1	15 1.9							
Islets, Pancreatic	+																				50								
Parathyroid Gland	+																				49								
Hyperplasia	3																		3	M				4				6	2.8

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 1-4 .. Lesion qualified as:  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																				* TOTALS									
	0 6 4 4	0 7 2 7	0 6 6 4	0 5 8 9	0 6 8 7	0 7 2 6	0 5 9 3	0 5 4 4	0 6 6 4	0 7 2 7	0 6 0 7	0 6 7 8	0 7 2 7	0 6 2 0	0 5 6 1	0 6 8 0	0 6 7 1	0 6 6 4	0 7 2 7	0 5 8 0		0 7 2 7	0 6 6 2	0 6 0 3	0 6 6 4	0 6 6 5	0 6 6 6			
0 mg/L	ANIMAL ID																													
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	6	6	6	6		
	2	3	6	7	8	9	0	1	2	3	4	5	6	7	8	2	3	4	0	1	2	3	4	5	6	6	6	6		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																										4		2	4.0	
Pars Distalis, Atrophy													3															1	3.0	
Pars Distalis, Hyperplasia	1										3	3	4						2		3							12	2.3	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
C-cell, Hyperplasia		2		1	1					4				2	1			2		1		1	1	1	3			22	1.9	
Follicular Cell, Hyperplasia				2																1								2	1.5	
<b>GENERAL BODY SYSTEM</b>																														
NONE																														
<b>GENITAL SYSTEM</b>																														
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy	2																								1			8	2.0	
Inflammation																													1	1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																													1	2.0
Inflammation																													2	3.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																													1	2.0
Inflammation		1	1	3	3	1		3	2	2	2	3	2	2	4	2	1	2	2		1	2	2	2				42	1.9	
Epithelium, Hyperplasia						3				1	2	1	1	1			2		1										11	1.4
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																													1	3.0

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 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																				* TOTALS		
	0644	0727	0664	0588	0688	0722	0594	0554	0664	0727	0666	0777	0777	0666	0555	0666	0666	0777	0555	0777		0666	0666
<b>0 mg/L</b>	ANIMAL ID																						
	00032	00033	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	00051	00052	00053	00054	00056	
Inflammation																							3 1.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy			2	1					2	2			4			3							15 2.5
Inflammation																							1 2.0
Germinal Epithelium, Degeneration			2	2					3				3			4							8 2.6
Interstitial Cell, Hyperplasia			2	2				3	2	3			2	2	3	2	2		3			3	23 2.5
<b>HEMATOPOIETIC SYSTEM</b>																							
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																		2					4 1.3
Hyperplasia			4					4	3	2			4		4	4		2	3		2	4	17 3.1
Myelofibrosis																						2	1 2.0
Lymph Node				+																			5
Renal, Infiltration Cellular, Plasma Cell																							2 2.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ectasia																		2		2	1		4 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																							2 2.5
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hematopoietic Cell Proliferation						2	1		3	1	1	1	1	1	2	1	2		2	1	1	1	32 1.3
Infarct																							2 2.0
Pigmentation, Hemosiderin	1	1			1	1				1	1	1	1	1		1	1		1	1	1	1	35 1.1
Stromal Hyperplasia																						1	1
Thymus	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
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 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																				* TOTALS						
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0				
0 mg/L	6	7	6	5	6	7	5	5	6	7	6	6	7	7	6	5	6	6	6	7	5	7	7	6	6		
	4	2	6	8	8	2	9	4	6	2	0	7	2	2	1	6	8	7	6	2	8	2	2	0	6		
	4	7	4	9	7	6	3	4	4	7	7	8	7	7	0	1	0	1	4	7	0	7	7	2	4		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	6		
	2	3	6	7	8	9	0	1	2	3	4	5	6	7	8	2	3	4	0	1	2	3	4	5	6		
Atrophy	3	3			3	3	3	4	3	3	2	3	3	3	3	3	4	4	3	3	3	2	2	3	3	47	3.1

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperplasia							1															1			6	1.2
Inflammation, Chronic																									1	2.0
Inflammation, Chronic Active																									1	2.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst Epithelial Inclusion	X																								1	
Inflammation				3									2												3	2.7
Ulcer											3														2	2.5
Epidermis, Hyperkeratosis	3		3																						2	3.0
Epidermis, Hyperplasia	3										2		2												3	2.3
Epidermis, Hyperplasia, Squamous				2																					1	2.0

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Fibrous Osteodystrophy																		2							1	2.0
Osteopetrosis																									3	1.7
Skeletal Muscle																									4	

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----	--

**RESPIRATORY SYSTEM**

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

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





Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

DAY ON TEST	FISCHER 344-TACONIC RATS MALE																									* TOTALS
	0 6 4 4	0 7 2 7	0 6 6 4	0 5 8 9	0 6 8 7	0 7 2 6	0 5 9 3	0 5 4 4	0 6 6 4	0 7 2 7	0 6 0 7	0 6 7 8	0 7 2 7	0 6 2 7	0 5 1 0	0 6 8 0	0 6 7 1	0 6 6 4	0 7 2 7	0 5 8 0	0 7 2 7	0 6 2 7	0 6 0 4	0 6 6 5	0 6 2 4	
ANIMAL ID	0 mg/L																									* TOTALS
	0 0 3 2	0 0 3 3	0 0 3 6	0 0 3 7	0 0 3 8	0 0 3 9	0 0 4 0	0 0 4 1	0 0 4 2	0 0 4 3	0 0 4 4	0 0 4 5	0 0 4 6	0 0 4 7	0 0 4 8	0 0 5 2	0 0 5 3	0 0 5 4	0 0 6 0	0 0 6 1	0 0 6 2	0 0 6 3	0 0 6 4	0 0 6 5	0 0 6 6	

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Accumulation, Hyaline Droplet														2															3	2.3	
Mineralization		1			1		1	1		1			1	1	1			1	1			1	1						16	1.0	
Nephropathy	4	3	3	3	4	4	2	2	3	4	3	4	3	2	3	2	3	3	4	3	2	3	3	2	3				48	3.1	
Cortex, Cyst																													1	4.0	
Cortex, Inflammation, Focal								1																					1	1.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation																														1	2.0

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 + .. Tissue examined microscopically  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
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Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																								males (cont...)
	05	06	06	07	07	07	07	05	07	06	07	06	05	07	06	06	07	07	06	07	05	01	07		
250 mg/L	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	001	001	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3		
	3	4	5	6	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1		

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Amyloid Deposition																						
Inflammation																						
Parasite Metazoan	X	X									X										X	
Thrombosis																						
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis				1																		
Basophilic Focus	X						X		X	X				X	X		X	X		X		X
Clear Cell Focus				X			X		X	X				X			X			X	X	X
Degeneration, Cystic				1			1					1		1					1			
Eosinophilic Focus	X			X											X					X		
Fatty Change												3						2				3
Hemorrhage																						
Hepatodiaphragmatic Nodule			X									X										X
Inflammation, Chronic Active	1	1		1			1	1	1	1			1	1	1	1	1			1	1	1

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

FISCHER 344-TACONIC RATS MALE 250 mg/L	DAY ON TEST																								ANIMAL ID	males (cont...)
	0595	0638	0635	0727	0777	0777	0777	0533	0719	0668	0767	0659	0779	0664	0665	0776	0776	0667	0776	0776	0533	0117	0172	0076		
	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	0001		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0001		
	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	0001		
	3	4	5	6	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	0001		

Mixed Cell Focus	X																							
Necrosis																								
Bile Duct, Hyperplasia	1	1	2	3	2	2	1	2	1	2	1	1	2	2	2	1	2	2	2	1	1	2	2	
Mesentery																								
Fat, Necrosis	4	1																						
Oral Mucosa	+																							
Pancreas	+																							
Atrophy																								
Acinus, Hyperplasia																								
Salivary Glands	+																							
Stomach, Forestomach	+																							
Inflammation																								
Ulcer																								
Epithelium, Hyperplasia																								
Stomach, Glandular	+																							
Inflammation																								
Tongue	+																							

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+																							
Aorta, Mineralization																								
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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																				males (cont...)				
	05	06	06	07	07	07	07	05	07	06	07	06	05	07	06	06	07	07	06	07		05	01	07	
250 mg/L	9	3	3	2	2	2	2	3	1	8	2	7	0	2	4	8	2	2	6	1	2	2	3	1	2
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	
	3	4	5	6	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	

Cardiomyopathy	1	2	1	2	2	2	2	1	3	3	3	2	3	2	2	2	2	2	1	1	3	2	1	2	3
Mineralization																			2					2	
Atrium, Inflammation																									
Atrium, Thrombosis																									

### ENDOCRINE SYSTEM

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

### GENERAL BODY SYSTEM

NONE

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

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



Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																				ANIMAL ID	males (cont...)		
	0595	0638	0665	0727	0777	0777	0777	0777	0573	0769	0678	0767	0567	0770	0642	0684	0722	0666	0776	0777			0575	0717
250 mg/L	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126

Mediastinal, Infiltration Cellular, Mast Cell

2

Lymph Node, Mandibular  
Ectasia

+ +

Lymph Node, Mesenteric

+ +

Spleen  
Hematopoietic Cell Proliferation  
Hyperplasia, Lymphoid  
Infarct  
Pigmentation, Hemosiderin  
Red Pulp, Atrophy

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

Thymus  
Atrophy

M + + + + + + + + + + + + + + + + M + + + + + +  
 3 3 3 3 3 3 3 4 3 3 3 3 4 4 4 4 4 4 3 3 3 2 3

**INTEGUMENTARY SYSTEM**

Mammary Gland  
Hyperplasia

+  
 1

Skin  
Hyperplasia, Squamous  
Inflammation  
Ulcer  
Epidermis, Hyperkeratosis  
Epidermis, Hyperplasia

+  
 3  
 2  
 4 2 3

**MUSCULOSKELETAL 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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

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

Bone  
Osteopetrosis +

**NERVOUS SYSTEM**

Brain +  
 Gliosis 1  
 Hemorrhage  
 Infiltration Cellular, Lymphocyte 1  
 Peripheral Nerve +  
 Degeneration 2  
 Spinal Cord +

**RESPIRATORY SYSTEM**

Lung +  
 Inflammation, Chronic Active 1 1 1 1 1 1 1  
 Alveolar Epithelium, Hyperplasia 3 2  
 Alveolus, Infiltration Cellular, Histiocyte 1 1 1 1 1 1 1  
 Nose +  
 Foreign Body X X X X X X X X X  
 Inflammation 1 2 1 1 1 1 2 2 1 1 1 1  
 Glands, Olfactory Epithelium, Hyperplasia  
 Trachea +

**SPECIAL SENSES SYSTEM**

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| DAY ON TEST          | FISCHER 344-TACONIC RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |
|----------------------|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|                      | 0595                          | 0638 | 0635 | 0727 | 0777 | 0777 | 0777 | 0533 | 0713 | 0668 | 0767 | 0655 | 0766 | 0666 | 0722 | 0766 | 0677 | 0677 | 0777 | 0551 | 0717 | 0551 | 0717 |      |           |                    |
| 250 mg/L             | 0010                          | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0010 |           |                    |
| Eye                  | +                             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 0011 |           |                    |
| Iris, Inflammation   |                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0011 | 2         |                    |
| Lens, Cataract       |                               |      |      |      | 2    |      |      |      | 1    |      |      |      |      |      | 1    |      |      |      |      |      |      |      |      | 0011 |           |                    |
| Retina, Degeneration |                               |      |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0011 |           |                    |
| Retina, Gliosis      |                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2    |      |      |      |      | 0011 |           |                    |
| Harderian Gland      | +                             | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 0011 |           |                    |
| Zymbal's Gland       |                               |      |      |      | +    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0011 |           |                    |

**URINARY SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|---|
| Kidney                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0011 |   |
| Mineralization           | 1 | 1 | 1 |   | 1 | 1 |   |   | 1 | 1 |   |   |   | 1 | 1 |   | 1 | 1 |   |   |   |   | 3 | 0011 |   |
| Nephropathy              | 2 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 4 | 0011 | 3 |
| Cortex, Cyst             |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   | 0011 |   |
| Pelvis, Dilatation       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0011 | 2 |
| Renal Tubule, Dilatation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0011 | 2 |
| Urinary Bladder          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0011 |   |
| Inflammation             |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0011 | 4 |

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

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



Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                               | 056         | 079  | 092  | 007  | 077  | 058  | 066  | 072  | 066  | 066  | 077  | 077  | 066  | 055  | 072  | 077  | 066  | 077  | 077  | 077  | 066  | 066  | 066  | 066  |          |
| 250 mg/L                      | 000         | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  | 000  |          |
| ANIMAL ID                     | 0134        | 0015 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 |          |

**ALIMENTARY SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |        |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--------|
| Esophagus                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |        |
| Intestine Large, Cecum       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |        |
| Intestine Large, Colon       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |        |
| Amyloid Deposition           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 | 1 3.0  |
| Inflammation                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 | 1 3.0  |
| Parasite Metazoan            |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   | X | X |   |   |   |   |    |   | 8      |
| Thrombosis                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 1 1.0  |
| Intestine Large, Rectum      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |        |
| Intestine Small, Duodenum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |        |
| Intestine Small, Ileum       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |        |
| Intestine Small, Jejunum     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |        |
| Liver                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |        |
| Angiectasis                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   | 1 1.0  |
| Basophilic Focus             |   | X | X | X |   | X |   |   | X |   |   | X | X | X |   | X | X | X |   | X |   |   |   |   |    |   | 23     |
| Clear Cell Focus             |   | X |   |   | X | X | X |   |   |   |   | X | X | X |   | X |   |   | X | X | X |   |   |   |    |   | 20     |
| Degeneration, Cystic         |   |   |   |   |   | 1 |   |   | 1 |   |   | 2 | 1 |   |   |   |   | 1 |   | 1 |   |   |   | 1 |    |   | 12 1.1 |
| Eosinophilic Focus           | X |   |   |   | X | X |   |   |   |   |   | X |   |   |   |   | X |   |   | X |   |   |   |   |    |   | 10     |
| Fatty Change                 |   |   |   | 1 |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 1 |   |    |   | 7 2.3  |
| Hemorrhage                   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   | 1 2.0  |
| Hepatodiaphragmatic Nodule   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |    |   | 4      |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 |   | 1 | 1 | 1 | 1 |   | 1 | 1 |   | 1 | 1 |   | 1 | 1 |    |   | 36 1.0 |

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

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

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>250 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |                       |                       |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>5<br>2<br>6      | 0<br>7<br>2<br>6      | 0<br>5<br>9<br>7      | 0<br>3<br>0<br>9      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>5<br>5<br>8      | 0<br>6<br>0<br>9      | 0<br>7<br>0<br>2      | 0<br>6<br>0<br>7      | 0<br>6<br>9<br>4      | 0<br>6<br>9<br>1      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>6      | 0<br>6<br>8<br>0      | 0<br>5<br>1<br>6      | 0<br>7<br>2<br>6      | 0<br>6<br>0<br>3      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      |                       | 0<br>6<br>2<br>2      | 0<br>7<br>2<br>2      | 0<br>6<br>2<br>9      | 0<br>6<br>8<br>7      |                       |                       |                       |
| ANIMAL ID                                 | 0<br>0<br>1<br>3<br>4 | 0<br>0<br>1<br>3<br>5 | 0<br>0<br>1<br>3<br>6 | 0<br>0<br>1<br>3<br>7 | 0<br>0<br>1<br>3<br>8 | 0<br>0<br>1<br>3<br>9 | 0<br>0<br>1<br>4<br>0 | 0<br>0<br>1<br>4<br>1 | 0<br>0<br>1<br>4<br>2 | 0<br>0<br>1<br>4<br>3 | 0<br>0<br>1<br>4<br>4 | 0<br>0<br>1<br>4<br>5 | 0<br>0<br>1<br>5<br>6 | 0<br>0<br>1<br>5<br>7 | 0<br>0<br>1<br>5<br>8 | 0<br>0<br>1<br>5<br>9 | 0<br>0<br>1<br>5<br>0 | 0<br>0<br>1<br>5<br>1 | 0<br>0<br>1<br>5<br>2 | 0<br>0<br>1<br>5<br>3 | 0<br>0<br>1<br>5<br>4 | 0<br>0<br>1<br>5<br>5 | 0<br>0<br>1<br>5<br>6 | 0<br>0<br>1<br>5<br>7 | 0<br>0<br>1<br>6<br>0 | 0<br>0<br>1<br>6<br>1 | 0<br>0<br>1<br>6<br>2 | 0<br>0<br>1<br>6<br>3 |
| Mixed Cell Focus                          | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |
| Necrosis                                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 3.0                   |                       |                       |                       |                       |                       |                       |
| Bile Duct, Hyperplasia                    | 2                     | 2                     | 2                     |                       | 2                     | 2                     | 2                     | 1                     | 1                     | 2                     | 2                     | 1                     | 2                     | 2                     | 1                     | 1                     | 2                     | 1                     | 3                     | 1                     | 2                     | 1                     | 1                     | 2                     | 2                     | 48                    | 1.7                   |                       |
| Mesentery                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     |                       |                       |                       |                       |                       |                       |                       |
| Fat, Necrosis                             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 3                     | 2.3                   |                       |                       |                       |                       |                       |
| Oral Mucosa                               | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                       |                       |                       |                       |                       |                       |
| Pancreas                                  | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                       |                       |                       |                       |                       |                       |
| Atrophy                                   | 1                     |                       | 1                     |                       | 1                     |                       | 1                     |                       |                       |                       |                       | 1                     |                       |                       |                       | 3                     |                       |                       |                       |                       |                       |                       | 2                     |                       | 3                     | 19                    | 1.4                   |                       |
| Acinus, Hyperplasia                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 1                     | 2.0                   |                       |                       |                       |                       |                       |
| Salivary Glands                           | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                       |                       |                       |                       |                       |                       |
| Stomach, Forestomach                      | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                       |                       |                       |                       |                       |                       |
| Inflammation                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     | 1                     | 3                     | 8                     | 2.3                   |                       |                       |                       |
| Ulcer                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       | 3                     | 2.3                   |                       |                       |                       |
| Epithelium, Hyperplasia                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                     | 2                     | 1                     | 2                     | 2.1                   |                       |                       |                       |
| Stomach, Glandular                        | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                       |                       |                       |                       |                       |                       |
| Inflammation                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 2.0                   |                       |                       |                       |
| Tongue                                    | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50                    |                       |                       |                       |                       |                       |                       |                       |

**CARDIOVASCULAR SYSTEM**

|                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |     |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Blood Vessel          | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |     |
| Aorta, Mineralization |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  | 2.0 |
| Heart                 | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>250 mg/L | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |    |    |           |            |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|-----------|------------|
|   | 05          | 07 | 05 | 03 | 07 | 07 | 05 | 06 | 07 | 06 | 06 | 06 | 07 | 07 | 06 | 05 | 07 | 07 | 06 | 07 |          |    | 07 | 06 | 06        |            |
| ANIMAL ID                                 | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       | 00 |    |    |           |            |
|   | 1           | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1        | 1  |    |    |           |            |
|   | 3           | 3  | 3  | 3  | 3  | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 6        | 6  |    |    |           |            |
|   | 4           | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7        | 0  |    |    |           |            |
| Cardiomyopathy                            | 2           | 2  | 2  |    | 3  | 2  | 1  | 1  | 2  | 3  | 1  | 2  | 3  | 2  | 2  | 1  | 3  | 3  | 1  | 1  | 3        | 3  | 2  | 2  | <b>48</b> | <b>2.0</b> |
| Mineralization                            |             |    |    |    |    |    |    |    |    |    |    | 1  |    |    |    |    |    |    |    |    |          |    |    |    | <b>3</b>  | <b>1.7</b> |
| Atrium, Inflammation                      | 1           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    | <b>1</b>  | <b>1.0</b> |
| Atrium, Thrombosis                        | 1           |    |    |    |    |    |    |    |    |    |    | 3  |    |    |    |    |    | 3  |    | 2  |          | 2  |    | 3  | <b>6</b>  | <b>2.3</b> |

**ENDOCRINE SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |           |            |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------|------------|
| Adrenal Cortex             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |           |            |
| Degeneration, Cystic       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |           | <b>1</b>  | <b>1.0</b> |
| Hyperplasia                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |           | <b>2</b>  | <b>1.5</b> |
| Hypertrophy                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |           | <b>3</b>  | <b>1.7</b> |
| Vacuolization Cytoplasmic  |   |   |   |   |   |   |   |   | 2 |   |   |   | 2 |   | 2 |   |   |   |   |   | 1 |   |   |   |           | <b>9</b>  | <b>1.3</b> |
| Adrenal Medulla            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |           |            |
| Hyperplasia                | 2 |   |   |   |   |   | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 4         | <b>18</b> | <b>1.9</b> |
| Islets, Pancreatic         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |           |            |
| Hyperplasia                |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>2</b>  | <b>2.0</b> |
| Parathyroid Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b> |           |            |
| Hyperplasia                |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | M |           | <b>1</b>  | <b>2.0</b> |
| Pituitary Gland            | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b> |           |            |
| Pars Distalis, Hyperplasia | 1 |   |   | 4 |   | 3 | 2 |   |   |   |   |   |   |   |   |   | 3 | 1 |   |   |   |   |   |   | 2         | <b>14</b> | <b>2.3</b> |
| Thyroid Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |           |            |
| C-cell, Hyperplasia        |   |   | 1 |   | 2 |   |   |   |   | 1 |   | 1 | 2 | 1 |   |   |   |   |   |   | 1 |   | 2 | 1 | 1         | <b>20</b> | <b>1.4</b> |

**GENERAL BODY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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Experiment Number: 96014 - 05  
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 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
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 Lab: BAT

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

**GENITAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |     |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|-----|
| Epididymis Atrophy                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 7  | 1.6 |     |     |
| Preputial Gland Hyperplasia                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2  | 2.0 |     |     |
| Prostate Inflammation Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 41 | 1.9 |     |     |
|   |   |   | 2 | 3 |   | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 2 |   | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 2  |    | 17  | 1.6 |     |
| Seminal Vesicle Inflammation                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3  | 2.3 |     |     |
| Testes Atrophy                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 16 | 2.9 |     |     |
| Germinal Epithelium, Degeneration             |   |   |   |   | 3 |   |   | 4 | 1 |   | 4 |   |   |   | 2 | 3 |   |   |   |   | 1 | 4 |   | 1  |    | 10  | 2.3 |     |
| Interstitial Cell, Hyperplasia                |   |   | 4 | 2 |   | 3 |   | 4 | 1 | 1 |   | 1 |   | 2 |   | 2 | 3 |   |   | 3 | 1 | 3 |   | 1  | 4  |     | 26  | 2.5 |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |     |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|-----|
| Bone Marrow Angiectasis                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 29 | 1.7 |     |     |
| Hemorrhage                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 5  | 1.8 |     |     |
| Hyperplasia                                   |   |   |   | 1 | 3 |   |   |   |   |   |   | 4 |   |   |   | 3 | 3 | 3 |   |   | 1 |   | 3 | 4  |    | 19  | 2.7 |     |
| Necrosis                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 1   | 2.0 |     |
| Thrombosis                                    |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 1 | 2  |    | 4   | 1.8 |     |
| Lymph Node Mediastinal, Hyperplasia, Lymphoid |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 2   | 1   | 2.0 |

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

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



**Experiment Number:** 96014 - 05  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Water disinfection byproducts (Bromodichloroacetic acid)  
**CAS Number:** 71133-14-7

**Date Report Requested:** 03/05/2013  
**Time Report Requested:** 08:02:51  
**First Dose M/F:** 10/26/06 / 10/27/06  
**Lab:** BAT

|   | 0             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |  |
|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
| DAY ON TEST                                 | 5             | 7 | 5 | 3 | 7 | 7 | 5 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 6               |  |
| <b>FISCHER 344-TACONIC RATS MALE</b>        | 2             | 2 | 9 | 0 | 2 | 2 | 5 | 0 | 0 | 0 | 9 | 9 | 2 | 2 | 8 | 1 | 2 | 2 | 0 | 2 | 2 | 2 | 2               |  |
| <b>250 mg/L</b>                             | 6             | 6 | 7 | 9 | 7 | 7 | 8 | 9 | 2 | 7 | 4 | 1 | 6 | 6 | 0 | 6 | 6 | 3 | 7 | 7 | 7 | 2 | 7               |  |
| ANIMAL ID                                   | 0             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |  |
|   | 1             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1               |  |
|   | 3             | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6               |  |
|   | 4             | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1               |  |
|   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |  |
| Bone  | +             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b>       |  |
| Osteopetrosis                               | 2             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>    |  |
| <b>NERVOUS SYSTEM</b>                       |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  |
| Brain                                       | +             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b>       |  |
| Gliosis                                     |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 1.0</b>    |  |
| Hemorrhage                                  |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2 2.0</b>    |  |
| Infiltration Cellular, Lymphocyte           | 3             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 1.0</b>    |  |
| Peripheral Nerve                            |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |  |
| Degeneration                                | +             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>    |  |
| Spinal Cord                                 | +             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |  |
| <b>RESPIRATORY SYSTEM</b>                   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |  |
| Lung  | +             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b>       |  |
| Inflammation, Chronic Active                | 1 1           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>11 1.0</b>   |  |
| Alveolar Epithelium, Hyperplasia            | 4 3 1         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>7 2.1</b>    |  |
| Alveolus, Infiltration Cellular, Histiocyte | 1 1 1 1 1 1 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>22 1.0</b>   |  |
| Nose  | +             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b>       |  |
| Foreign Body                                | X X X X X X X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>16</b>       |  |
| Inflammation                                | 2 2 1 2 1 2   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>21 1.5</b>   |  |
| Glands, Olfactory Epithelium, Hyperplasia   | 3             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 3.0</b>    |  |
| Trachea                                     | +             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b>       |  |

**SPECIAL SENSES SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
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BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                               | 0526        | 0726 | 0927 | 0309 | 0707 | 0707 | 0508 | 0609 | 0709 | 0607 | 0606 | 0706 | 0707 | 0606 | 0507 | 0706 | 0707 | 0606 | 0706 | 0707 | 0606 | 0706 | 0707 | 0606 |          |
| 250 mg/L                      | 0034        | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0046 | 0047 | 0048 | 0049 | 0050 | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0063     |

|                      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |       |
|----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-------|
| Eye                  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |       |
| Iris, Inflammation   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1 2.0 |
| Lens, Cataract       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 5 1.2 |
| Retina, Degeneration |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2 1.5 |
| Retina, Gliosis      | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2 1.5 |
| Harderian Gland      | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |       |
| Zymbal's Gland       | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2  |       |

**URINARY SYSTEM**

|                          |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |        |
|--------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Kidney                   | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |        |
| Mineralization           | 1 1 1 1   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 21 1.1 |
| Nephropathy              | 3 3 4 1 3 2 2 4 3 2 2 4 2 2 2 4 3 3 3 4 4 4 3 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 49 2.8 |
| Cortex, Cyst             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1 3.0  |
| Pelvis, Dilatation       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2 2.0  |
| Renal Tubule, Dilatation |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2 1.5  |
| Urinary Bladder          | +   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |        |
| Inflammation             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2 2.5  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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Experiment Number: 96014 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

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 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | males<br>(cont...) |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
|                               | 0<br>6<br>2<br>1      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>7      | 0<br>6<br>1<br>1      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>6      | 0<br>5<br>8<br>7      | 0<br>7<br>2<br>6      | 0<br>7<br>0<br>2      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>6<br>3<br>5      | 0<br>7<br>0<br>2      | 0<br>6<br>1<br>8      | 0<br>7<br>6<br>7      | 0<br>6<br>6<br>5      | 0<br>6<br>8<br>7      | 0<br>5<br>5<br>5      | 0<br>6<br>8<br>5      | 0<br>4<br>5<br>3      |                       |                    |
| 500 mg/L                      | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>3 | 0<br>0<br>0<br>0<br>4 | 0<br>0<br>0<br>0<br>5 | 0<br>0<br>0<br>0<br>6 | 0<br>0<br>0<br>0<br>7 | 0<br>0<br>0<br>0<br>8 | 0<br>0<br>0<br>0<br>9 | 0<br>0<br>0<br>1<br>2 | 0<br>0<br>0<br>1<br>3 | 0<br>0<br>0<br>1<br>4 | 0<br>0<br>0<br>1<br>5 | 0<br>0<br>0<br>1<br>6 | 0<br>0<br>0<br>1<br>7 | 0<br>0<br>0<br>2<br>8 | 0<br>0<br>0<br>2<br>9 | 0<br>0<br>0<br>2<br>0 | 0<br>0<br>0<br>2<br>1 | 0<br>0<br>0<br>2<br>2 | 0<br>0<br>0<br>2<br>3 | 0<br>0<br>0<br>2<br>4 | 0<br>0<br>0<br>2<br>5 | 0<br>0<br>0<br>2<br>6 |                    |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Erosion<br>Inflammation | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon<br>Parasite Metazoan       | + | + | + | + | + | X | + | + | + | X | + | + | + | + | + | + | + | + | + | X | + | + | X | + |
| Intestine Large, Rectum                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                                       |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Basophilic Focus                                  |   | X |   | X | X |   |   |   |   | X |   |   |   |   | X |   | X | X | X | X | X |   |   |   |
| Clear Cell Focus                                  |   | X |   |   |   |   |   |   | X | X | X | X | X | X |   |   |   |   | X |   |   |   |   |   |
| Degeneration, Cystic                              |   |   |   |   |   |   |   |   | 2 |   | 1 |   | 1 |   |   |   |   |   |   |   |   | 1 |   |   |
| Eosinophilic Focus                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Fatty Change                                      | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 1 |   |   |   |
| Fatty Change, Focal                               |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibrosis  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemorrhage  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatodiaphragmatic Nodule                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |

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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>500 mg/L                       | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|   | 0621        | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 |                    |
| ANIMAL ID   | 0001        | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0022 | 0023 | 0024 | 0028 | 0029 | 0030 | 0031 | 0032 |                    |
| Inflammation, Chronic Active Mixed Cell Focus Necrosis          |             | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |      | 1    | 1    |      | 1    | 1    | 1    | 2    | 1    | 1    | 1    | 1    |      | 1    | 1    |                    |
| Pigmentation, Hemosiderin Regeneration                          |             |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      | 4    |      |      | X    |      |      |      | 2    |                    |
| Bile Duct, Hyperplasia  | 1           | 2    | 2    | 2    | 2    | 2    | 2    | 1    | 2    | 2    | 2    | 2    | 1    | 2    | 2    | 2    |      | 2    | 1    | 1    | 2    | 2    | 2    | 2    |                    |
| Hepatocyte, Degeneration  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Oval Cell, Hyperplasia  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Mesentery Fat, Necrosis   | +           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +    | +    |      |      |      |      |      |      |                    |
| Oral Mucosa   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
| Pancreas Atrophy Acinus, Hyperplasia                            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    |                    |
| Salivary Glands Atrophy   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
| Stomach, Forestomach Inflammation Ulcer Epithelium, Hyperplasia | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
| Stomach, Glandular Erosion Inflammation Mineralization          | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |

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

Experiment Number: 96014 - 05  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: RATS/F344/N Tac

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Lab: BAT

| FISCHER 344-TACONIC RATS MALE |  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | males<br>(cont...)    |                       |
|-------------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 500 mg/L                      |  | 0<br>6<br>2<br>1      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>7      | 0<br>6<br>2<br>1      | 0<br>7<br>2<br>2      | 0<br>7<br>2<br>6      | 0<br>5<br>8<br>7      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>6<br>3<br>5      | 0<br>7<br>0<br>2      | 0<br>6<br>1<br>8      | 0<br>7<br>2<br>7      | 0<br>6<br>6<br>5      | 0<br>6<br>8<br>7      | 0<br>6<br>5<br>5      | 0<br>6<br>8<br>5      | 0<br>4<br>5<br>3      |                       |                       |                       |                       |
| ANIMAL ID                     |  | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>2<br>0<br>2 | 0<br>0<br>2<br>0<br>3 | 0<br>0<br>2<br>0<br>4 | 0<br>0<br>2<br>0<br>5 | 0<br>0<br>2<br>0<br>6 | 0<br>0<br>2<br>0<br>7 | 0<br>0<br>2<br>0<br>8 | 0<br>0<br>2<br>0<br>9 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>1<br>3 | 0<br>0<br>2<br>1<br>4 | 0<br>0<br>2<br>1<br>5 | 0<br>0<br>2<br>1<br>6 | 0<br>0<br>2<br>1<br>7 | 0<br>0<br>2<br>1<br>8 | 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>6 | 0<br>0<br>2<br>2<br>7 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>3<br>3 | 0<br>0<br>2<br>3<br>3 |

Epithelium, Hyperplasia

1

Tongue  
Epithelium, Hyperplasia

+  
2

### CARDIOVASCULAR SYSTEM

Blood Vessel  
Aneurysm  
Inflammation

+  
3  
2 1 1

Heart  
Cardiomyopathy  
Atrium, Thrombosis

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

### ENDOCRINE SYSTEM

Adrenal Cortex  
Degeneration, Cystic  
Hyperplasia  
Mineralization  
Vacuolization Cytoplasmic

+  
1  
1 1 1 1 1 1

Adrenal Medulla  
Hyperplasia

+  
1 1 1 2 2 4 1 4 3

Islets, Pancreatic

+ + + + + + + + + + + + + + + + M + + + + + + + +

Parathyroid Gland  
Hyperplasia

+ + + + + + + + + + + + + + + + M + + + + + + + +  
1

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

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | males<br>(cont...) |     |
|-------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|
|                               | 061         | 072 | 076 | 077 | 061 | 072 | 076 | 077 | 058 | 072 | 076 | 077 | 077 | 077 | 077 | 077 | 077 | 063 | 070 | 071 | 066 | 066 | 066 | 066 |                    | 045 |
| 500 mg/L                      | 000         | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000                |     |
| ANIMAL ID                     | 001         | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 022 | 023 | 024 | 028 | 029 | 030 | 031 | 032 | 033                |     |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland<br>Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   | 2 | 1 |   | 1 | 4 |   |   |   |   |   |   | 2 |   |   |   | 2 |   |   |   |   |   |   |   |   |   |
| Thyroid Gland<br>C-cell, Hyperplasia          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   | 2 |   |   |   |   | 3 |   |   | 2 | 1 | 3 |   | 1 | 1 |   |   |   | 2 | 1 |   |   |   | 2 | 3 |   |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis<br>Atrophy<br>Mesothelium, Hyperplasia                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |
| Preputial Gland<br>Hyperplasia<br>Duct, Hyperplasia, Squamous<br>Duct, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   | 2 |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |
| Prostate<br>Cyst<br>Inflammation<br>Epithelium, Hyperplasia                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
|   | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 |   | 2 | 2 | 2 | 1 |   | 2 | 3 | 1 | 1 | 2 | 1 | 2 |   |   |
|   |   |   |   |   | 2 |   |   | 1 |   |   |   | 1 | 1 | 2 | 1 |   |   |   |   |   |   |   |   |   |   |
| Seminal Vesicle<br>Hyperplasia<br>Inflammation                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Testes  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|--|
|   | 0621        | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 |                    |  |
| ANIMAL ID                                 | 0001        | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0022 | 0023 | 0024 | 0028 | 0029 | 0030 | 0031 | 0032 |                    |  |
| Atrophy                                   | 4           |      |      | 1    |      |      |      | 4    |      |      |      |      |      |      |      |      | 2    |      |      |      |      |      | 4    | 1    |                    |  |
| Germinal Epithelium, Degeneration         |             |      |      |      |      |      |      | 2    | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      | 2    | 2    |                    |  |
| Interstitial Cell, Hyperplasia            | 3           |      |      | 3    |      |      | 4    | 2    | 1    | 2    |      |      | 2    | 2    | 2    |      |      |      |      |      |      |      | 1    | 2    |                    |  |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Angiectasis                               |   | 3 | 4 |   | 3 | 2 | 3 | 1 | 1 | 2 |   | 2 | 1 | 2 | 2 |   | 3 |   |   |   | 2 | 2 |   | 2 |  |
| Hemorrhage                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |  |
| Hyperplasia                               | 4 | 2 |   |   |   |   |   |   |   | 4 |   |   |   |   |   | 3 | 3 | 1 |   |   |   | 3 | 4 |   |  |
| Lymph Node                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lumbar, Ectasia                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lumbar, Infiltration Cellular, Histiocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Mediastinal, Hyperplasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Renal, Hyperplasia, Lymphoid              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Mandibular                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Ectasia                                   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |  |
| Lymph Node, Mesenteric                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |  |
| Ectasia                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Spleen                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |  |
| Hematopoietic Cell Proliferation          | 2 | 1 | 1 |   | 1 | 1 |   |   | 1 |   | 1 | 1 |   | 2 | 1 | 2 |   |   |   |   | 1 | 1 |   | 1 |  |
| Pigmentation, Hemosiderin                 |   | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   | 1 | 1 | 1 | 1 | 1 |   |   | 1 | 1 | 1 | 1 | 1 |   | 1 |  |
| Stromal Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoid Follicle, Atrophy                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Red Pulp, Atrophy                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Thymus                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

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|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|                               | 0621        | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 |                    |
| 500 mg/L                      | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                    |
| ANIMAL ID                     | 0020        | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0042 | 0043 | 0044 | 0045 | 0048 |                    |

Atrophy 4 3 3 3 3 3 3 3 4 3 4 3 3 3 3 3 2 3 4 4 3 4 3 4 3

**INTEGUMENTARY SYSTEM**

Mammary Gland Hyperplasia +  
 1 1

Skin Cyst Epithelial Inclusion +  
 Inflammation 2  
 Ulcer  
 Epidermis, Hyperkeratosis  
 Epidermis, Hyperplasia 2 2

**MUSCULOSKELETAL SYSTEM**

Bone +  
 Skeletal Muscle +

**NERVOUS SYSTEM**

Brain +

**RESPIRATORY SYSTEM**

Lung +  
 Inflammation, Chronic Active 1 1 1 1  
 Metaplasia, Osseous 1 1 1 1  
 Alveolar Epithelium, Hyperplasia 4 2 2 1 3  
 Alveolus, Infiltration Cellular, Histiocyte 1 1 1 1 1 1 1 1 1

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|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    | 0 |
|   | 6           | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 6 |                    | 6 |
|   | 2           | 2 | 2 | 2 | 1 | 2 | 2 | 8 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 3 | 0 | 1 | 2 | 6 | 8 | 5                  | 8 |
|   | 1           | 6 | 6 | 7 | 1 | 7 | 6 | 7 | 6 | 2 | 7 | 7 | 7 | 7 | 5 | 2 | 8 | 7 | 5 | 7 | 5 | 5                  | 3 |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  | 0 |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  | 0 |
|   | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2                  | 2 |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3                  | 3 |
|   | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 2 | 3 | 4 | 8 | 9 | 0                  | 1 |
| Nose                                      | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                  | + |
| Foreign Body                              |             |   |   | X |   |   | X |   |   | X | X |   | X | X |   | X | X |   | X |   |   |                    |   |
| Inflammation                              |             |   |   | 2 |   |   | 1 |   |   | 1 | 1 | 2 |   |   | 1 | 1 | 1 |   | 1 | 1 | 1 |                    |   |
| Trachea                                   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                  | + |
| <b>SPECIAL SENSES SYSTEM</b>              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
| Eye                                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                  | + |
| Anterior Chamber, Inflammation            |             |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
| Lens, Cataract                            |             |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
| Retina, Degeneration                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1                  |   |
| Harderian Gland                           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                  | + |
| Inflammation                              |             |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
| <b>URINARY SYSTEM</b>                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |
| Kidney                                    | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                  | + |
| Accumulation, Hyaline Droplet             |             |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |                    |   |
| Mineralization                            | 1           |   | 1 |   | 1 | 1 | 1 |   |   | 1 | 1 | 1 | 1 |   |   |   |   | 1 | 1 | 1 |   | 1                  |   |
| Nephropathy                               | 2           | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 2 | 1 |   | 3 | 3 | 3 | 3 | 2                  | 3 |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2                  | 1 |
| Urinary Bladder                           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                  | + |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |
|-------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
|                               | 0587        | 0777  | 0777  | 0493  | 0646  | 0777  | 0777  | 0777  | 0777  | 0646  | 0466  | 0667  | 0575  | 0777  | 0667  | 0575  | 0777  | 0777  | 0667  | 0777  | 0777  | 0667  | 0777  |    |          |
| 500 mg/L                      | 00236       | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 50 |          |

**ALIMENTARY SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Esophagus                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Intestine Large, Cecum     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |
| Erosion                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Inflammation               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.5 |
| Intestine Large, Colon     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Parasite Metazoan          |   |   | X | X |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   | 10 |     |
| Intestine Large, Rectum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Intestine Small, Duodenum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |
| Intestine Small, Ileum     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |
| Intestine Small, Jejunum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |
| Liver                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Angiectasis                |   |   | 1 |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 1.3 |
| Basophilic Focus           |   |   |   |   |   | X |   | X | X |   |   |   |   | X |   |   |   |   | X |   |   | X | X | 17 |     |
| Clear Cell Focus           |   |   | X | X |   | X |   | X |   |   |   |   |   | X |   |   |   | X | X | X | X | X | X | 21 |     |
| Degeneration, Cystic       |   |   | 1 |   | 1 | 1 |   |   |   |   |   | 1 |   |   |   | 2 |   | 1 | 2 |   |   |   |   | 11 | 1.3 |
| Eosinophilic Focus         |   |   | X |   | X |   | X | X |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   | 7  |     |
| Fatty Change               |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   | 4  | 1.8 |
| Fatty Change, Focal        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Fibrosis                   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |
| Hemorrhage                 |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   | 1  | 4.0 |
| Hepatodiaphragmatic Nodule |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 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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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>500 mg/L     | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|----------|
|   | 0587        | 0777  | 0777  | 0493  | 0646  | 0777  | 0777  | 0777  | 0777  | 0646  | 0466  | 0667  | 0577  | 0776  | 0767  | 0576  | 0775  | 0772  | 0672  | 0664  | 0672  | 0772  | 0666  |     |          |
| ANIMAL ID                                     | 00236       | 00033 | 00033 | 00033 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00055 | 00055 | 00055 | 00055 | 00055 | 00055 | 00066 | 00066 | 00066 | 00066 | 00066 | 00066 | 00066 |     |          |
| Inflammation, Chronic Active Mixed Cell Focus |             | 1     | 1     | 1     | 1     | 1     |       |       |       |       | 1     |       |       |       | 1     | 1     |       | 1     | 1     |       | 1     | 1     | 1     | 36  | 1.1      |
| Necrosis                                      |             |       |       |       |       |       |       |       |       |       |       |       | 4     |       |       |       |       |       |       |       |       | X     |       | 4   | 2.8      |
| Pigmentation, Hemosiderin                     |             |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2   | 1.5      |
| Regeneration                                  |             |       |       |       |       |       |       |       |       |       |       | 3     |       |       |       |       |       |       |       |       |       |       |       | 1   | 3.0      |
| Tension Lipidosis                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       | 1   | 1.0      |
| Bile Duct, Hyperplasia                        | 2           | 2     | 2     | 1     | 2     | 2     | 2     | 2     | 2     | 3     | 1     | 1     | 2     | 2     | 2     | 2     | 2     | 2     | 1     | 1     | 2     | 2     | 1     | 49  | 1.8      |
| Hepatocyte, Degeneration                      |             |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       | 1   | 1.0      |
| Oval Cell, Hyperplasia                        |             |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       | 1   | 1.0      |
| Mesentery Fat, Necrosis                       |             |       |       |       |       |       |       |       |       |       | +     | +     |       | +     |       |       |       | +     |       | +     | +     |       | 9     |     |          |
|   |             |       |       |       |       |       |       |       |       |       |       | 4     |       |       |       |       |       | 1     |       |       | 2     |       | 3     | 2.3 |          |
| Oral Mucosa                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |     |          |
| Pancreas Atrophy                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49    |     |          |
| Acinus, Hyperplasia                           |             |       |       | 1     |       |       |       | 2     |       |       |       |       |       |       | 2     |       |       | 1     |       | 1     | 1     |       | 2     | 15  | 1.5      |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4     | 3     |       |       |       | 3   | 3.7      |
| Salivary Glands Atrophy                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |     |          |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1   | 2.0      |
| Stomach, Forestomach Inflammation             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |     |          |
| Ulcer   | 2           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       | 2     |       |       |       | 4     | 2.0 |          |
| Epithelium, Hyperplasia                       | 2           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       | 1     |       | 4     | 2.0 |          |
| Stomach, Glandular Erosion                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |     |          |
| Inflammation                                  |             |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       | 1     | 2.0 |          |
| Mineralization                                |             |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       | 2     | 1.5 |          |
|   |             |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       | 1     | 2.0 |          |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>500 mg/L  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |                       |                                   |                |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------------------|----------------|
|  | 0<br>5<br>8<br>7      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>4<br>9<br>3      | 0<br>6<br>4<br>6      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>6      | 0<br>7<br>1<br>2      | 0<br>7<br>8<br>8      | 0<br>6<br>4<br>2      | 0<br>6<br>0<br>5      | 0<br>6<br>9<br>9      | 0<br>7<br>2<br>6      | 0<br>5<br>1<br>3      | 0<br>7<br>2<br>4      | 0<br>6<br>7<br>4      | 0<br>5<br>8<br>6      | 0<br>7<br>2<br>6      | 0<br>6<br>7<br>4      |                       | 0<br>7<br>2<br>6      | 0<br>6<br>7<br>6      | 0<br>7<br>2<br>6      | 0<br>6<br>7<br>6      |                                   |                |
| ANIMAL ID  | 0<br>0<br>2<br>3<br>6 | 0<br>0<br>2<br>3<br>7 | 0<br>0<br>2<br>3<br>8 | 0<br>0<br>2<br>3<br>9 | 0<br>0<br>2<br>4<br>0 | 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>3 | 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>6 | 0<br>0<br>2<br>4<br>7 | 0<br>0<br>2<br>4<br>8 | 0<br>0<br>2<br>5<br>2 | 0<br>0<br>2<br>5<br>3 | 0<br>0<br>2<br>5<br>4 | 0<br>0<br>2<br>5<br>5 | 0<br>0<br>2<br>5<br>6 | 0<br>0<br>2<br>5<br>7 | 0<br>0<br>2<br>6<br>1 | 0<br>0<br>2<br>6<br>2 | 0<br>0<br>2<br>6<br>3 | 0<br>0<br>2<br>6<br>4 | 0<br>0<br>2<br>6<br>5 | 0<br>0<br>2<br>6<br>6 |                                   |                |
| Epithelium, Hyperplasia  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 1.0                 |                                   |                |
| Tongue<br>Epithelium, Hyperplasia  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                                | 1 2.0          |
| <b>CARDIOVASCULAR SYSTEM</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                                   |                |
| Blood Vessel<br>Aneurysm<br>Inflammation   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                                | 1 3.0<br>3 1.3 |
| Heart<br>Cardiomyopathy<br>Atrium, Thrombosis  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    | 48 1.9<br>7 1.9                   |                |
| <b>ENDOCRINE SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                                   |                |
| Adrenal Cortex<br>Degeneration, Cystic<br>Hyperplasia<br>Mineralization<br>Vacuolization Cytoplasmic | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    | 1 1.0<br>2 1.0<br>1 1.0<br>17 1.1 |                |
| Adrenal Medulla<br>Hyperplasia   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    | 15 1.9                |                                   |                |
| Islets, Pancreatic   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 49                    |                       |                                   |                |
| Parathyroid Gland<br>Hyperplasia   | M                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | 46                    | 1 1.0                 |                                   |                |

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

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>500 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
|   | 0587        | 0727  | 0727  | 0493  | 0646  | 0727  | 0727  | 0727  | 0727  | 0646  | 0466  | 0666  | 0727  | 0573  | 0727  | 0674  | 0727  | 0573  | 0727  | 0666  | 0674  | 0727  | 0666  |  |          |
| ANIMAL ID                                 | 00236       | 00033 | 00033 | 00033 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00044 | 00055 | 00055 | 00055 | 00055 | 00055 | 00066 | 00066 | 00066 | 00066 | 00066 | 00066 |  |          |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Pituitary Gland<br>Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 18 | 2.1 |
| Thyroid Gland<br>C-cell, Hyperplasia          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 21 | 1.8 |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |    |     |    |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|----|-----|----|-----|
| Epididymis<br>Atrophy<br>Mesothelium, Hyperplasia                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 | 1.4 | 1  | 2.0 |    |     |
| Preputial Gland<br>Hyperplasia<br>Duct, Hyperplasia, Squamous<br>Duct, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.0 | 1  | 2.0 | 1  | 4.0 |
| Prostate<br>Cyst<br>Inflammation<br>Epithelium, Hyperplasia                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 | 45 | 1.6 | 12 | 1.7 |
| Seminal Vesicle<br>Hyperplasia<br>Inflammation                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 | 2  | 3.0 |    |     |
| Testes  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |     |    |     |    |     |

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>500 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0587        | 0777  | 0777  | 0493  | 0646  | 0777  | 0777  | 0777  | 0777  | 0646  | 0466  | 0667  | 0667  | 0577  | 0577  | 0676  | 0777  | 0577  | 0777  | 0676  | 0777  | 0777  | 0676  | 0777  |          |
| ANIMAL ID                                 | 00236       | 00033 | 00033 | 00033 | 00044 | 00044 | 00044 | 00044 | 00044 | 00055 | 00066 | 00077 | 00088 | 00099 | 00100 | 00111 | 00122 | 00133 | 00144 | 00155 | 00166 | 00177 | 00188 | 00199 |          |

|                                   |   |   |  |   |   |  |  |  |  |   |   |   |   |  |  |  |   |  |   |  |  |   |   |               |
|-----------------------------------|---|---|--|---|---|--|--|--|--|---|---|---|---|--|--|--|---|--|---|--|--|---|---|---------------|
| Atrophy                           | 2 |   |  |   |   |  |  |  |  | 4 | 2 | 4 |   |  |  |  | 2 |  | 4 |  |  | 1 | 3 | <b>16 2.8</b> |
| Germinal Epithelium, Degeneration |   |   |  |   |   |  |  |  |  |   | 3 |   |   |  |  |  |   |  |   |  |  |   |   | <b>8 2.1</b>  |
| Interstitial Cell, Hyperplasia    | 4 | 3 |  | 1 | 4 |  |  |  |  | 3 |   |   | 3 |  |  |  | 2 |  | 2 |  |  | 3 |   | <b>24 2.4</b> |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |               |               |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|
| Bone Marrow                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>     |               |
| Angiectasis                               |   | 2 | 2 | 1 | 2 | 2 | 1 |   | 3 |   |   | 3 |   | 1 |   | 1 | 1 |   | 2 | 3 | 2 | 3 | 4 | 3 | 2             | <b>34 2.1</b> |
| Hemorrhage                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>  |               |
| Hyperplasia                               | 2 |   |   |   |   |   |   | 3 | 3 | 4 | 3 | 2 | 4 |   | 4 |   | 3 |   | 1 | 2 | 3 |   |   |   | <b>20 2.9</b> |               |
| Lymph Node                                |   |   |   |   |   |   | + |   | + |   |   | + | + |   |   | + |   | + |   |   |   |   |   |   | <b>8</b>      |               |
| Lumbar, Ectasia                           |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 4.0</b>  |               |
| Lumbar, Infiltration Cellular, Histiocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   | <b>1 2.0</b>  |               |
| Mediastinal, Hyperplasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   | <b>1 2.0</b>  |               |
| Renal, Hyperplasia, Lymphoid              |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   | <b>1 3.0</b>  |               |
| Lymph Node, Mandibular                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>     |               |
| Ectasia                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2 2.5</b>  |               |
| Lymph Node, Mesenteric                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>     |               |
| Ectasia                                   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 3.0</b>  |               |
| Spleen                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>     |               |
| Hematopoietic Cell Proliferation          | 1 | 1 | 1 |   |   | 1 |   | 1 | 3 |   | 2 |   |   | 1 | 2 |   |   | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1             | <b>31 1.3</b> |
| Pigmentation, Hemosiderin                 |   | 1 | 1 | 1 | 1 | 1 |   | 1 |   |   |   |   |   | 1 |   | 1 |   | 1 |   | 1 | 1 | 1 | 1 | 1 | <b>32 1.0</b> |               |
| Stromal Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>      |               |
| Lymphoid Follicle, Atrophy                |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   | 2 |   |   |   | <b>3 2.0</b>  |               |
| Red Pulp, Atrophy                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   | <b>1 4.0</b>  |               |
| Thymus                                    | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | <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  
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Experiment Number: 96014 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Water disinfection byproducts (Bromodichloroacetic acid)

CAS Number: 71133-14-7

Date Report Requested: 03/05/2013

Time Report Requested: 08:02:51

First Dose M/F: 10/26/06 / 10/27/06

Lab: BAT

| DAY ON TEST                          |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |   |               |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---------------|
| <b>FISCHER 344-TACONIC RATS MALE</b> |  | 5 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 6 | 4 | 6 | 6 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 7 | 6 | 7               |   |               |
| <b>500 mg/L</b>                      |  | 8 | 2 | 2 | 9 | 4 | 2 | 2 | 2 | 1 | 8 | 4 | 0 | 9 | 2 | 1 | 2 | 7 | 2 | 8 | 2 | 7 | 2 | 2               |   |               |
| ANIMAL ID                            |  | 7 | 7 | 7 | 3 | 6 | 6 | 7 | 2 | 2 | 8 | 2 | 5 | 9 | 6 | 3 | 4 | 4 | 6 | 5 | 6 | 6 | 6 | 6               |   |               |
|                                      |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |   |               |
|                                      |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |   |               |
|                                      |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2               |   |               |
|                                      |  | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6               |   |               |
|                                      |  | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4               |   |               |
|                                      |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |               |
| Nose                                 |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>       |   |               |
| Foreign Body                         |  |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   | <b>10</b>       |   |               |
| Inflammation                         |  |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 1 | 2 |   |   |   |   |   |   |   | <b>14 1.3</b>   |   |               |
| Trachea                              |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>       |   |               |
| <b>SPECIAL SENSES SYSTEM</b>         |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |               |
| Eye                                  |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>       |   |               |
| Anterior Chamber, Inflammation       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 4.0</b>    |   |               |
| Lens, Cataract                       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 1.0</b>    |   |               |
| Retina, Degeneration                 |  |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   | 1 |   |   |   | <b>3 1.0</b>    |   |               |
| Harderian Gland                      |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>       |   |               |
| Inflammation                         |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 3.0</b>    |   |               |
| <b>URINARY SYSTEM</b>                |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |               |
| Kidney                               |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>       |   |               |
| Accumulation, Hyaline Droplet        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 1.0</b>    |   |               |
| Mineralization                       |  | 1 | 1 |   | 1 |   |   | 1 | 2 |   | 1 | 1 | 1 |   |   | 1 | 1 |   |   |   |   | 1 |   | <b>25 1.0</b>   |   |               |
| Nephropathy                          |  | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 3 | 3               | 2 | <b>49 2.4</b> |
| Urinary Bladder                      |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| DAY ON TEST | FISCHER 344-TACONIC RATS MALE |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | males<br>(cont...) |    |    |                            |                            |
|-------------|-------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|----|----|----------------------------|----------------------------|
|             | 07                            | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 |           |                    | 05 | 07 | 07                         | 07                         |
| 1000 mg/L   | 27                            | 57 | 53 | 74 | 61 | 05 | 81 | 42 | 66 | 78 | 26 | 44 | 29 | 77 | 56 | 43 | 22 | 87 | 38 | 24 | 00        | 77                 | 22 | 00 | 00<br>00<br>03<br>00<br>04 | 00<br>00<br>03<br>00<br>04 |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon<br>Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |   | X |
| Intestine Large, Rectum                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                                 |   | 1 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |
| Basophilic Focus                            |   | X |   | X |   | X |   |   |   | X |   | X |   | X |   | X |   | X | X | X |   |   | X |   |
| Clear Cell Focus                            | X |   |   |   |   |   |   | X | X | X |   |   | X |   | X |   |   | X | X |   |   |   |   |   |
| Congestion                                  |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Degeneration, Cystic                        |   |   | 1 | 1 | 1 |   |   |   |   | 1 |   |   |   | 1 |   |   |   | 1 |   |   | 1 |   |   | 1 |
| Eosinophilic Focus                          |   |   |   | X | X |   |   |   |   | X | X | X |   |   |   |   |   |   |   | X | X | X |   | X |
| Fatty Change                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fatty Change, Focal                         |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 1 |   |   |   |   |
| Hematopoietic Cell Proliferation            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatodiaphragmatic Nodule                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Chronic Active                |   | 1 | 1 | 2 |   | 1 | 1 | 1 | 1 |   | 1 |   | 1 |   | 1 | 2 | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 |
| Mixed Cell Focus                            |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |

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 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | males<br>(cont...)    |                       |                       |                       |  |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
|                               | 0<br>7<br>2<br>7      | 0<br>6<br>5<br>7      | 0<br>6<br>5<br>3      | 0<br>6<br>7<br>4      | 0<br>5<br>6<br>1      | 0<br>7<br>0<br>5      | 0<br>4<br>8<br>1      | 0<br>6<br>4<br>2      | 0<br>7<br>2<br>6      | 0<br>5<br>8<br>7      | 0<br>6<br>2<br>6      | 0<br>6<br>4<br>4      | 0<br>6<br>2<br>4      | 0<br>7<br>2<br>9      | 0<br>5<br>8<br>6      | 0<br>4<br>3<br>6      | 0<br>7<br>2<br>7      | 0<br>5<br>4<br>8      | 0<br>6<br>0<br>2      | 0<br>7<br>7<br>3      |                       |                       | 0<br>7<br>2<br>6      | 0<br>7<br>0<br>6      | 0<br>7<br>0<br>6      |  |
| 1000 mg/L                     | 0<br>0<br>3<br>0<br>4 | 0<br>0<br>3<br>0<br>5 | 0<br>0<br>3<br>0<br>6 | 0<br>0<br>3<br>1<br>0 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>2 | 0<br>0<br>3<br>1<br>3 | 0<br>0<br>3<br>1<br>4 | 0<br>0<br>3<br>1<br>5 | 0<br>0<br>3<br>1<br>6 | 0<br>0<br>3<br>1<br>7 | 0<br>0<br>3<br>1<br>8 | 0<br>0<br>3<br>1<br>9 | 0<br>0<br>3<br>2<br>0 | 0<br>0<br>3<br>2<br>1 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>3 | 0<br>0<br>3<br>2<br>4 | 0<br>0<br>3<br>2<br>8 | 0<br>0<br>3<br>2<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 |  |
| Necrosis                      |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Pigmentation, Hemosiderin     |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Tension Lipidosis             |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Thrombosis                    |                       |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Bile Duct, Cyst               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Bile Duct, Hyperplasia        | 2                     | 2                     | 2                     | 2                     | 1                     | 3                     | 1                     | 2                     | 3                     | 1                     | 3                     | 2                     | 2                     | 2                     | 2                     |                       | 1                     | 2                     | 1                     | 2                     | 2                     | 2                     | 2                     | 1                     | 2                     |  |
| Hepatocyte, Degeneration      |                       | 1                     | 1                     | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Mesentery                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Fat, Necrosis                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Oral Mucosa                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Pancreas                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Atrophy                       | 1                     | 1                     |                       |                       |                       | 1                     |                       |                       |                       |                       | 1                     |                       | 4                     |                       |                       |                       | 2                     |                       | 1                     | 1                     | 1                     |                       |                       | 2                     | 1                     |  |
| Acinus, Hyperplasia           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       | 1                     |                       |  |
| Salivary Glands               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Stomach, Forestomach          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Erosion                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Epithelium, Hyperplasia       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Stomach, Glandular            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Mineralization                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Tongue                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
| Epithelium, Hyperplasia       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |

**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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | males<br>(cont...) |    |    |
|-------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|----|----|
|                               | 07          | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 |           |                    | 05 | 07 |
| 1000 mg/L                     | 27          | 57 | 53 | 74 | 61 | 05 | 81 | 42 | 26 | 87 | 26 | 64 | 44 | 29 | 27 | 86 | 36 | 27 | 48 | 02 | 73        | 26                 | 20 | 26 |
|                               | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00        | 00                 | 00 | 00 |
|                               | 33          | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33        | 33                 | 33 | 33 |
|                               | 00          | 00 | 00 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 33        | 33                 | 33 | 33 |
|                               | 45          | 66 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 88 | 99 | 00 | 33        | 44                 | 55 | 66 |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Heart              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Cardiomyopathy     | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 3 | 2 | 2 |   | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 3 | 2 |
| Atrium, Thrombosis |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |

**ENDOCRINE SYSTEM**

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

**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



Experiment Number: 96014 - 05  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
Water disinfection byproducts (Bromodichloroacetic acid)  
CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
Time Report Requested: 08:02:51  
First Dose M/F: 10/26/06 / 10/27/06  
Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>1000 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | males<br>(cont...)    |                       |                       |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>2<br>7      | 0<br>6<br>5<br>7      | 0<br>6<br>5<br>3      | 0<br>6<br>7<br>4      | 0<br>5<br>6<br>1      | 0<br>7<br>0<br>5      | 0<br>4<br>8<br>1      | 0<br>6<br>4<br>2      | 0<br>7<br>2<br>6      | 0<br>5<br>8<br>7      | 0<br>7<br>2<br>6      | 0<br>6<br>4<br>4      | 0<br>6<br>6<br>4      | 0<br>7<br>2<br>9      | 0<br>5<br>8<br>6      | 0<br>4<br>3<br>6      | 0<br>7<br>2<br>7      | 0<br>5<br>4<br>8      | 0<br>6<br>0<br>2      | 0<br>7<br>2<br>3      | 0<br>7<br>2<br>6      |                       | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>6      |                       |
| ANIMAL ID                                  | 0<br>0<br>3<br>0<br>4 | 0<br>0<br>3<br>0<br>5 | 0<br>0<br>3<br>0<br>6 | 0<br>0<br>3<br>1<br>0 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>2 | 0<br>0<br>3<br>1<br>3 | 0<br>0<br>3<br>1<br>4 | 0<br>0<br>3<br>1<br>5 | 0<br>0<br>3<br>1<br>6 | 0<br>0<br>3<br>1<br>7 | 0<br>0<br>3<br>1<br>8 | 0<br>0<br>3<br>1<br>9 | 0<br>0<br>3<br>2<br>0 | 0<br>0<br>3<br>2<br>1 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>3 | 0<br>0<br>3<br>2<br>4 | 0<br>0<br>3<br>2<br>8 | 0<br>0<br>3<br>2<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 |

NONE

### GENITAL SYSTEM

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

### HEMATOPOIETIC SYSTEM

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis   | 2 | 1 | 3 | 3 | 3 | 1 | 2 | 1 |   | 2 |   | 3 | 2 | 2 | 3 |   |   | 3 |   | 2 | 1 | 1 | 3 | 3 |
| Hyperplasia   |   |   | 1 | 2 | 3 | 4 | 4 | 2 |   |   | 1 | 1 | 1 | 4 | 3 |   |   | 4 |   | 2 | 4 | 3 |   |   |
| Myelofibrosis |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Thrombosis    |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | males<br>(cont...) |        |        |        |        |
|-------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|--------|--------|--------|--------|
|                               | 0<br>7      | 0<br>6 | 0<br>6 | 0<br>6 | 0<br>5 | 0<br>7 | 0<br>4 | 0<br>6 | 0<br>7 | 0<br>5 | 0<br>7 | 0<br>6 | 0<br>6 | 0<br>6 | 0<br>7 | 0<br>5 | 0<br>4 | 0<br>7 | 0<br>5 | 0<br>6 |                    | 0<br>5 | 0<br>7 | 0<br>7 | 0<br>7 |
| 1000 mg/L                     | 2           | 5      | 5      | 7      | 6      | 0      | 8      | 4      | 2      | 8      | 2      | 6      | 4      | 2      | 2      | 8      | 3      | 2      | 4      | 0      | 7                  | 2      | 2      | 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      | 0      | 0      | 0      |
|                               | 0           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                  | 0      | 0      | 0      | 0      |
|                               | 3           | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3                  | 3      | 3      | 3      | 3      |
|                               | 0           | 0      | 0      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 2      | 2      | 2      | 2      | 2      | 2      | 3      | 3                  | 3      | 3      | 3      | 3      |
|                               | 4           | 5      | 6      | 0      | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 0      | 1      | 2      | 3      | 4      | 8      | 9      | 0                  | 3      | 4      | 5      | 6      |

Lymph Node  
 Iliac, Ectasia  
 Iliac, Hyperplasia, Lymphoid  
 Iliac, Necrosis, Lymphoid  
 Inguinal, Ectasia  
 Mediastinal, Infiltration Cellular, Histiocyte  
 Mediastinal, Infiltration Cellular, Plasma Cell  
 Pancreatic, Inflammation, Histiocytic  
 Renal, Infiltration Cellular, Histiocyte

Lymph Node, Mandibular

Lymph Node, Mesenteric

Atrophy  
 Ectasia  
 Hemorrhage  
 Necrosis

Spleen

Hematopoietic Cell Proliferation  
 Hemorrhage  
 Infarct  
 Pigmentation, Hemosiderin  
 Stromal Hyperplasia  
 Thrombosis  
 Capsule, Fibrosis

Thymus

Atrophy

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                          |   |   |   |   |   |   |   | 3 |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |
| Ectasia                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |
| Hemorrhage                       |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spleen                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 1 | 2 | 3 | 1 |   | 3 | 3 |   |   | 3 | 1 |   | 1 | 3 |   |   | 1 | 1 | 1 | 1 |   | 1 | 1 | 1 |   |
| Hemorrhage                       |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |
| Infarct                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pigmentation, Hemosiderin        | 1 | 1 |   |   |   |   | 1 | 1 | 1 |   |   | 1 |   |   |   | 1 |   | 1 | 1 |   |   | 1 | 1 | 2 |   |
| Stromal Hyperplasia              |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |
| Thrombosis                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Capsule, Fibrosis                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymus                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                          | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | males<br>(cont...) |
|-------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|
|                               | 07          | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 | 05 | 07 | 07 | 07 |           |                    |
| 1000 mg/L                     | 27          | 57 | 53 | 74 | 61 | 05 | 08 | 42 | 28 | 62 | 64 | 44 | 92 | 77 | 68 | 33 | 22 | 44 | 08 | 37 | 26 | 06 | 07 | 06 |           |                    |
|                               | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |           |                    |
|                               | 33          | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |           |                    |
|                               | 00          | 00 | 00 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 |           |                    |
|                               | 45          | 66 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 88 | 99 | 00 | 33 | 44 | 55 | 66 |           |                    |

**INTEGUMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Hyperplasia               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin Inflammation                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin Ulcer                              |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   | 2 |   |
| Skin Dermis, Fibrosis                   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin Epidermis, Hyperkeratosis          |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin Epidermis, Hyperplasia             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin Epidermis, Hyperplasia, Basal Cell |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |

**MUSCULOSKELETAL SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Osteopetrosis                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bone Cartilage, Sternum, Degeneration |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |
| Bone Tibia, Fracture                  |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |

**NERVOUS SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain Meninges, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|                             |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**RESPIRATORY SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung Fibrosis                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lung Inflammation, Chronic Active     | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung Alveolar Epithelium, Hyperplasia | 2 | 3 | 1 |   |   | 2 |   | 1 |   | 1 |   | 1 |   |   |   | 1 | 1 | 2 |   |   |   | 1 | 2 |   |
|                                       |   |   |   | 3 |   |   |   | 1 |   |   |   |   | 1 | 4 |   |   | 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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>1000 mg/L  | DAY ON TEST |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | males<br>(cont...) |          |          |          |          |          |  |
|---|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|--|
|   | 07<br>27    | 06<br>57 | 06<br>53 | 06<br>74 | 05<br>61 | 07<br>45 | 04<br>61 | 06<br>82 | 07<br>42 | 05<br>86 | 07<br>64 | 06<br>64 | 06<br>62 | 07<br>28 | 05<br>83 | 04<br>36 | 07<br>27 | 05<br>68 | 06<br>52 | 07<br>37 |                    | 05<br>76 | 07<br>26 | 07<br>77 | 07<br>20 | 07<br>26 |  |
| ANIMAL ID                                   | 00304       | 00305    | 00306    | 00307    | 00308    | 00309    | 00310    | 00311    | 00312    | 00313    | 00314    | 00315    | 00316    | 00317    | 00318    | 00319    | 00320    | 00321    | 00322    | 00323    | 00324              | 00325    | 00326    | 00327    | 00328    | 00329    |  |
| Alveolar Epithelium, Hypertrophy            |             |          |          | 1        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          | 2        |  |
| Alveolus, Infiltration Cellular, Histiocyte |             | 3        | 1        | 1        | 2        |          |          |          | 1        |          | 1        | 2        |          |          |          |          |          | 1        |          | 1        | 1                  |          |          |          |          |          |  |
| Nose  | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +                  | +        | +        | +        | +        | +        |  |
| Foreign Body                                |             | X        |          | X        | X        |          | X        |          |          | X        |          |          |          | X        |          |          |          |          |          |          | X                  | X        |          |          |          |          |  |
| Inflammation                                |             | 1        |          | 2        | 1        |          | 1        |          |          | 2        |          |          |          | 1        | 1        |          |          | 2        |          |          | 1                  | 1        |          |          |          |          |  |
| Olfactory Epithelium, Metaplasia            |             |          |          |          |          |          |          |          |          |          |          |          |          | 1        |          |          |          |          |          |          |                    |          |          |          |          |          |  |
| Trachea                                     | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +                  | +        | +        | +        | +        | +        |  |
| <b>SPECIAL SENSES SYSTEM</b>                |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |  |
| Eye   | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +                  | +        | +        | +        | +        | +        |  |
| Anterior Chamber, Inflammation              |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |  |
| Cornea, Inflammation                        |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          | 3        |  |
| Lens, Cataract                              | 3           |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |  |
| Retina, Degeneration                        | 4           |          |          |          |          |          |          |          |          |          |          | 3        |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |  |
| Retina, Dysplasia                           |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |  |
| Harderian Gland                             | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +                  | +        | +        | +        | +        | +        |  |
| Hyperplasia, Squamous                       |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          | 3        |  |
| Metaplasia, Squamous                        |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          | 2        |  |
| Zymbal's Gland                              |             |          |          |          |          |          |          |          |          | +        |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          | +        |  |
| <b>URINARY SYSTEM</b>                       |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |  |
| Kidney                                      | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +                  | +        | +        | +        | +        | +        |  |
| Mineralization                              | 1           | 1        | 1        |          |          | 1        | 1        | 1        |          |          | 1        |          | 1        | 1        | 1        |          |          |          |          | 1        |                    |          |          |          | 1        | 1        |  |
| Nephropathy                                 | 1           | 1        | 2        | 1        | 1        | 2        | 1        | 1        | 2        | 1        | 3        | 3        | 1        | 1        | 1        | 1        | 2        | 2        | 1        | 1        | 1                  | 1        | 2        | 2        | 2        | 2        |  |
| Renal Tubule, Hyperplasia, Atypical         |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |  |

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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

|                                      | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                            |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| <b>FISCHER 344-TACONIC RATS MALE</b> | 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 | 6 | 6 | 5 | 7 | 4 | 6 | 7 | 5 | 7 | 6 | 6 | 6 | 7 | 5 | 4 | 7 | 5 | 6 | 5 | 7 | 7 | 7 |   |                            |
| <b>1000 mg/L</b>                     | 2           | 5 | 5 | 7 | 6 | 0 | 8 | 4 | 2 | 8 | 2 | 6 | 4 | 2 | 2 | 8 | 3 | 2 | 4 | 0 | 7 | 2 | 2 | 0 | 2 |                            |
|                                      | 7           | 7 | 3 | 4 | 1 | 5 | 1 | 2 | 6 | 7 | 6 | 4 | 4 | 9 | 7 | 6 | 6 | 7 | 8 | 2 | 3 | 6 | 6 | 7 | 6 |                            |
|                                      | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                            |
|                                      | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                            |
|                                      | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                            |
|                                      | 0           | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |   |                            |
|                                      | 4           | 5 | 6 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 8 | 9 | 0 | 3 | 4 | 5 | 6 | <b>males<br/>(cont...)</b> |

Renal Tubule, Necrosis

Urinary Bladder

+ +

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

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 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   | * TOTALS |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|----------|
|                               | 07          | 06   | 06   | 06   | 06   | 07   | 04   | 07   | 07   | 03   | 07   | 06   | 07   | 06   | 07   | 06   | 07   | 07   | 04   | 07   | 07   | 05   | 06   |   |          |
| 1000 mg/L                     | 27          | 78   | 64   | 61   | 60   | 77   | 62   | 66   | 22   | 68   | 05   | 64   | 00   | 07   | 88   | 72   | 66   | 79   | 66   | 72   | 66   | 75   | 62   | 8 |          |
| ANIMAL ID                     | 0033        | 0034 | 0044 | 0044 | 0044 | 0044 | 0044 | 0055 | 0090 | 0011 | 0022 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 |   |          |

**ALIMENTARY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Intestine Large, Cecum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Intestine Large, Colon           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Parasite Metazoan                |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   | X |   | X |   |   | 8      |
| Intestine Large, Rectum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Intestine Small, Duodenum        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Intestine Small, Ileum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Intestine Small, Jejunum         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Liver                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Angiectasis                      |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 1.0  |
| Basophilic Focus                 | X |   |   | X |   |   |   |   | X |   |   |   |   | X | X |   | X |   | X | X | X |   | X | 20     |
| Clear Cell Focus                 | X |   |   |   | X |   |   |   |   |   |   | X |   |   | X |   | X |   | X |   | X |   |   | 16     |
| Congestion                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 4.0  |
| Degeneration, Cystic             |   |   | 2 |   | 1 |   |   | 1 |   |   |   |   |   |   |   | 1 |   |   |   |   |   | 1 | 1 | 14 1.1 |
| Eosinophilic Focus               |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   | X |   | X |   | X |   |   |   | 14     |
| Fatty Change                     |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |
| Fatty Change, Focal              |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 1.0  |
| Hematopoietic Cell Proliferation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   | 1 | 1 | 3 1.0  |
| Hepatodiaphragmatic Nodule       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   | 2      |
| Inflammation, Chronic Active     | 1 | 1 |   | 1 | 1 | 1 | 1 |   |   | 1 | 1 | 1 |   | 1 | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 36 1.1 |
| Mixed Cell Focus                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>1000 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                  |     |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|-----|
|  | 0<br>7<br>2<br>7      | 0<br>6<br>7<br>8      | 0<br>6<br>6<br>4      | 0<br>6<br>2<br>1      | 0<br>6<br>1<br>0      | 0<br>7<br>2<br>7      | 0<br>4<br>6<br>7      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>6      | 0<br>3<br>2<br>6      | 0<br>7<br>2<br>6      | 0<br>6<br>1<br>0      | 0<br>6<br>7<br>8      | 0<br>7<br>2<br>7      | 0<br>6<br>7<br>8      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>6      | 0<br>4<br>9<br>6      | 0<br>7<br>2<br>6      | 0<br>7<br>2<br>6      |                       |                       | 0<br>5<br>7<br>5      | 0<br>6<br>2<br>9 |     |
| ANIMAL ID                                  | 0<br>0<br>3<br>3<br>9 | 0<br>0<br>3<br>4<br>0 | 0<br>0<br>3<br>4<br>1 | 0<br>0<br>3<br>4<br>2 | 0<br>0<br>3<br>4<br>3 | 0<br>0<br>3<br>4<br>4 | 0<br>0<br>3<br>4<br>5 | 0<br>0<br>3<br>4<br>9 | 0<br>0<br>3<br>5<br>0 | 0<br>0<br>3<br>5<br>1 | 0<br>0<br>3<br>5<br>2 | 0<br>0<br>3<br>5<br>3 | 0<br>0<br>3<br>5<br>4 | 0<br>0<br>3<br>5<br>5 | 0<br>0<br>3<br>5<br>5 | 0<br>0<br>3<br>5<br>5 | 0<br>0<br>3<br>5<br>6 | 0<br>0<br>3<br>6<br>1 | 0<br>0<br>3<br>6<br>2 | 0<br>0<br>3<br>6<br>3 | 0<br>0<br>3<br>6<br>4 | 0<br>0<br>3<br>6<br>5 | 0<br>0<br>3<br>6<br>6 |                  |     |
| Necrosis                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                     | 2                     |                       |                       |                       | 2                     |                       |                       |                       |                       |                       |                       |                       |                       | 5                | 2.2 |
| Pigmentation, Hemosiderin                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                | 1.0 |
| Tension Lipidosis                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |                       |                       | 2                | 2.0 |
| Thrombosis                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                | 2.0 |
| Bile Duct, Cyst                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                | 3.0 |
| Bile Duct, Hyperplasia                     | 2                     | 2                     | 2                     | 2                     | 2                     | 2                     | 2                     | 2                     | 2                     |                       | 2                     | 2                     | 2                     | 2                     | 2                     | 2                     | 2                     | 2                     | 1                     | 2                     | 2                     | 2                     | 2                     | 48               | 1.9 |
| Hepatocyte, Degeneration                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                | 1.0 |
| Mesentery                                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 10               |     |
| Fat, Necrosis                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 3                | 1.3 |
| Oral Mucosa                                |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50               |     |
| Pancreas                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50               |     |
| Atrophy                                    | 3                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 21               | 1.7 |
| Acinus, Hyperplasia                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4                | 2.3 |
| Salivary Glands                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50               |     |
| Stomach, Forestomach                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50               |     |
| Erosion                                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                | 2.0 |
| Epithelium, Hyperplasia                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                | 1.0 |
| Stomach, Glandular                         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50               |     |
| Mineralization                             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                | 1.0 |
| Tongue                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 50               |     |
| Epithelium, Hyperplasia                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 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  
 BLANK .. Not examined microscopically

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>1000 mg/L | DAY ON TEST |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | * TOTALS |        |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|--------|
|  | 077         | 067 | 066 | 066 | 066 | 077 | 047 | 077 | 077 | 033 | 077 | 066 | 077 | 066 | 077 | 066 | 077 | 077 | 047 | 077 |          | 055    |
| ANIMAL ID                                  | 000         | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000      | 000    |
| Blood Vessel                               | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | 50     |
| Heart                                      | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | 50     |
| Cardiomyopathy                             | 2           | 2   | 2   | 2   | 2   | 3   | 2   | 3   | 2   |     | 2   | 3   | 2   | 2   | 1   | 1   | 1   | 2   | 2   | 1   | 2        | 48 1.8 |
| Atrium, Thrombosis                         |             |     | 4   |     |     | 2   |     |     |     |     | 3   |     |     |     |     |     |     |     |     | 1   |          | 5 2.6  |
| <b>ENDOCRINE SYSTEM</b>                    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |        |
| Adrenal Cortex                             | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | 50     |
| Degeneration, Cystic                       |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 1 1.0  |
| Vacuolization Cytoplasmic                  |             |     | 2   |     |     |     |     | 2   |     |     |     |     |     | 1   |     |     |     | 1   |     |     |          | 13 1.2 |
| Adrenal Medulla                            | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | 50     |
| Hyperplasia                                |             | 3   | 2   |     |     | 2   |     |     |     |     |     |     |     |     | 2   |     |     |     |     |     |          | 9 2.2  |
| Islets, Pancreatic                         | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | 50     |
| Hyperplasia                                |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 1 1.0  |
| Parathyroid Gland                          | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | M   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | 44     |
| Hyperplasia                                |             |     |     |     |     |     |     | 1   |     |     |     |     |     |     |     |     |     |     |     |     |          | 1 1.0  |
| Pituitary Gland                            | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | I   | +   | +   | +   | +   | +   | +   | +        | 48     |
| Pars Distalis, Hyperplasia                 |             | 2   |     |     | 1   |     | 1   | 3   | 1   |     | 1   | 1   |     | 3   |     | 2   | 1   |     | 3   |     | 2        | 21 1.8 |
| Thyroid Gland                              | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +        | 50     |
| C-cell, Hyperplasia                        |             | 1   | 2   | 2   |     | 1   |     | 1   | 3   |     |     | 1   |     | 2   |     |     |     | 1   |     | 2   | 3        | 24 1.8 |
| Follicle, Cyst                             |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 2 1.0  |
| Follicular Cell, Hyperplasia               |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          | 1 4.0  |

**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



Experiment Number: 96014 - 05  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Water disinfection byproducts (Bromodichloroacetic acid)  
CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
Time Report Requested: 08:02:51  
First Dose M/F: 10/26/06 / 10/27/06  
Lab: BAT

|  |           | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|---|
| <b>FISCHER 344-TACONIC RATS MALE</b><br><br><b>1000 mg/L</b> |           | 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 | 6 | 6 | 6 | 7 | 4 | 7 | 7 | 3 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 4 | 7               | 7 | 5 | 6 |   |
|  |           | 2           | 7 | 6 | 2 | 1 | 2 | 6 | 2 | 2 | 8 | 0 | 6 | 1 | 7 | 2 | 7 | 2 | 2 | 2 | 9 | 2               | 2 | 7 | 2 |   |
|  |           | 7           | 8 | 4 | 1 | 0 | 7 | 7 | 6 | 6 | 9 | 5 | 4 | 0 | 8 | 7 | 8 | 6 | 6 | 6 | 6 | 6               | 6 | 9 |   |   |
|  | ANIMAL ID | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 | 0 |   |   |
|  |           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 | 0 |   |   |
|  |           | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3               | 3 | 3 |   |   |
|  |           | 3           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6               | 6 | 6 |   |   |
|  |           | 9           | 0 | 1 | 2 | 3 | 4 | 5 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2               | 3 | 4 | 5 | 6 |
|  |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |   |   |   |

NONE

### GENITAL SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    |     |     |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|-----|-----|
| Epididymis                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |    |     |     |
| Atrophy                           | 1 |   |   |   | 1 |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |    |    | 4  | 1.5 |     |
| Inflammation                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 1  | 1.0 |     |
| Preputial Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 49 |    |     |     |
| Prostate                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |    |     |     |
| Inflammation                      |   | 2 | 2 | 2 | 2 | 2 |   | 3 | 1 | 2 | 1 |   |   | 2 |   | 2 | 2 |   |   | 2 | 3 | 2 | 1 | 1  | 1  | 3  | 35  | 1.8 |
| Epithelium, Hyperplasia           | 1 | 2 |   |   |   | 1 | 2 | 1 | 4 |   | 2 |   |   |   | 1 | 1 |   |   |   |   | 2 | 1 | 1 |    |    | 14 | 1.8 |     |
| Seminal Vesicle                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |    |     |     |
| Hyperplasia                       |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |    | 1   | 3.0 |
| Inflammation                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |    |    | 1   | 3.0 |
| Testes                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |    |     |     |
| Atrophy                           |   |   |   | 2 | 1 | 4 |   |   |   | 4 |   | 3 | 4 |   | 4 | 2 | 2 |   |   |   |   | 1 |   | 3  | 3  |    | 17  | 2.6 |
| Germinal Epithelium, Degeneration |   |   | 2 |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   | 2  |    |    | 9   | 2.1 |
| Interstitial Cell, Hyperplasia    |   |   | 1 |   | 1 | 1 |   |   |   |   |   | 2 |   |   |   | 2 | 2 |   | 1 |   | 4 |   | 3 |    |    |    | 19  | 2.1 |

### HEMATOPOIETIC SYSTEM

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |  |    |     |     |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|----|-----|-----|
| Bone Marrow   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |  |    |     |     |
| Angiectasis   | 1 | 2 | 1 | 3 | 2 | 2 |   |   | 3 | 1 | 3 | 3 | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 2 |   | 3 | 2 | 1 |    |  | 40 | 2.1 |     |
| Hyperplasia   |   | 2 | 3 | 1 | 4 |   | 4 | 3 |   | 4 | 3 | 2 |   | 3 |   |   |   |   |   |   | 3 |   |   | 3 | 4  |  | 30 | 2.7 |     |
| Myelofibrosis |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |    |  |    | 2   | 1.0 |
| Thrombosis    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |  |    | 1   | 1.0 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>1000 mg/L      | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|
|   | 07          | 06 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 03 | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 04 | 07 |          | 05 |
| ANIMAL ID                                       | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       | 00 |
|   | 7           | 6  | 6  | 6  | 6  | 7  | 4  | 7  | 7  | 3  | 7  | 6  | 7  | 6  | 7  | 6  | 7  | 7  | 4  | 7  | 5        | 6  |
|   | 2           | 7  | 6  | 2  | 1  | 2  | 6  | 2  | 2  | 8  | 0  | 6  | 1  | 7  | 2  | 7  | 2  | 2  | 2  | 9  | 2        | 2  |
|   | 7           | 8  | 4  | 1  | 0  | 7  | 7  | 6  | 6  | 9  | 5  | 4  | 0  | 8  | 7  | 8  | 6  | 6  | 6  | 9  | 6        | 6  |
|   | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  |
|   | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  |
|   | 3           | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3        | 3  |
|   | 3           | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 6  | 6  | 6  | 6        | 6  |
|   | 9           | 0  | 1  | 2  | 3  | 4  | 5  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2        | 3  |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Lymph Node                                      |             |    |    |    | +  |    |    | +  |    |    | +  |    | +  |    |    |    |    | +  | +  |    |          | +  |
| Iliac, Ectasia                                  |             |    |    |    | 2  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Iliac, Hyperplasia, Lymphoid                    |             |    |    |    | 3  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Iliac, Necrosis, Lymphoid                       |             |    |    |    | 2  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Inguinal, Ectasia                               |             |    |    |    | 3  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Mediastinal, Infiltration Cellular, Histiocyte  |             |    |    |    |    |    |    |    |    |    | 2  |    |    |    |    |    |    |    |    |    |          |    |
| Mediastinal, Infiltration Cellular, Plasma Cell |             |    |    |    |    |    |    |    |    |    |    |    | 2  |    |    |    |    |    |    |    |          |    |
| Pancreatic, Inflammation, Histiocytic           |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 3  |    |          |    |
| Renal, Infiltration Cellular, Histiocyte        |             |    |    |    |    |    |    |    | 2  |    |    |    |    |    |    |    |    |    |    |    |          |    |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Lymph Node, Mandibular                          | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Lymph Node, Mesenteric                          | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  |
| Atrophy   |             |    | 2  |    |    | 3  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Ectasia   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Hemorrhage                                      |             |    |    |    |    |    |    |    |    |    |    | 2  |    |    |    |    |    |    |    |    |          |    |
| Necrosis  |             |    |    |    |    |    |    |    |    | 2  |    |    |    |    |    |    |    |    |    |    |          |    |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Spleen  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  |
| Hematopoietic Cell Proliferation                | 1           | 2  |    | 2  |    |    | 2  |    | 1  | 4  | 3  | 2  | 1  |    | 1  | 3  | 1  |    |    | 2  |          |    |
| Hemorrhage                                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Infarct   |             |    |    |    |    |    |    |    |    |    |    |    |    | 4  |    |    |    |    |    |    |          |    |
| Pigmentation, Hemosiderin                       | 1           | 1  | 1  | 1  |    |    |    |    | 1  |    |    | 1  | 1  |    | 1  | 1  | 1  | 1  | 1  | 1  | 1        | 1  |
| Stromal Hyperplasia                             |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Thrombosis                                      |             |    |    |    |    |    |    |    |    | 4  |    |    |    |    |    |    |    |    |    |    |          |    |
| Capsule, Fibrosis                               |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2  |    |          |    |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Thymus  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | M  |
| Atrophy   | 4           | 3  | 4  | 4  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 4  | 3  | 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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

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

### INTEGUMENTARY SYSTEM

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Mammary Gland<br>Hyperplasia       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |
|                                    | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Skin                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Inflammation                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   | 5  | 3.4 |
| Ulcer                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 3.0 |
| Dermis, Fibrosis                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   | 1  | 2.0 |
| Epidermis, Hyperkeratosis          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 2  | 2.0 |
| Epidermis, Hyperplasia             |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   | 2  | 2.0 |
| Epidermis, Hyperplasia, Basal Cell |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 4.0 |

### MUSCULOSKELETAL SYSTEM

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Osteopetrosis                    | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 2 |   |   |   |   |   |   |   | 2 |   |   | 4  | 2.0 |
| Cartilage, Sternum, Degeneration |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |
| Tibia, Fracture                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |     |

### NERVOUS SYSTEM

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |     |
| Meninges, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 2.0 |

### RESPIRATORY SYSTEM

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Lung                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Fibrosis                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 2.0 |
| Inflammation, Chronic Active     | 2 |   |   |   |   |   |   | 1 |   |   |   | 2 | 1 | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 19 | 1.5 |     |
| Alveolar Epithelium, Hyperplasia | 3 |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   | 1 |   |   | 10 | 2.1 |     |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE<br>1000 mg/L  | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |    |    |     |     |     |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|-----|-----|-----|
|   | 07          | 06 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 03 | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 04 | 07 |          | 07 | 05 | 06 |     |     |     |
| ANIMAL ID                                   | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       | 00 | 00 |    |     |     |     |
| Alveolar Epithelium, Hypertrophy            |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 2  | 1.5 |     |     |
| Alveolus, Infiltration Cellular, Histiocyte | 1           | 1  |    |    | 1  | 1  |    | 1  | 1  | 1  |    | 1  | 1  |    | 1  | 1  |    | 1  |    |    |          |    |    | 22 | 1.2 |     |     |
| Nose  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | 50 |     |     |     |
| Foreign Body                                |             |    |    | X  | X  |    |    |    |    |    |    | X  | X  | 1  |    | X  | X  |    |    |    | X        | X  |    | 17 | 1.0 |     |     |
| Inflammation                                |             |    |    | 2  | 1  |    |    |    | 1  | 2  |    | 2  |    | 2  | 1  |    | 1  | 2  | 1  |    | 2        | 2  |    | 22 | 1.5 |     |     |
| Olfactory Epithelium, Metaplasia            |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  | 1.0 |     |     |
| Trachea                                     | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | 50 |     |     |     |
| <b>SPECIAL SENSES SYSTEM</b>                |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |     |     |     |
| Eye   | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | 50 |     |     |     |
| Anterior Chamber, Inflammation              |             |    |    |    |    |    |    |    |    |    |    |    | 3  |    |    |    |    |    |    |    |          |    |    | 1  | 3.0 |     |     |
| Cornea, Inflammation                        |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  | 3.0 |     |     |
| Lens, Cataract                              |             |    |    |    |    |    |    |    | 1  |    |    |    | 2  | 1  |    |    |    |    | 1  |    | 2        |    |    | 6  | 1.7 |     |     |
| Retina, Degeneration                        |             |    |    |    |    |    |    |    |    |    |    | 1  |    |    |    |    |    | 2  |    |    | 2        |    |    | 5  | 2.4 |     |     |
| Retina, Dysplasia                           |             |    |    |    |    |    | 2  |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  | 2.0 |     |     |
| Harderian Gland                             | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | 50 |     |     |     |
| Hyperplasia, Squamous                       |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  | 3.0 |     |     |
| Metaplasia, Squamous                        |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  | 2.0 |     |     |
| Zymbal's Gland                              |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 2  |     |     |     |
| <b>URINARY SYSTEM</b>                       |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |     |     |     |
| Kidney                                      | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | 50 |     |     |     |
| Mineralization                              |             |    |    | 1  | 1  | 1  |    | 1  |    | 1  |    | 1  | 1  |    | 1  |    |    |    |    | 1  |          | 1  |    | 23 | 1.0 |     |     |
| Nephropathy                                 | 2           | 1  | 2  | 1  | 1  | 3  | 1  | 3  | 3  |    | 1  | 1  | 1  | 1  | 2  | 1  | 1  | 2  | 3  | 1  | 1        | 2  | 3  | 2  | 1   | 49  | 1.6 |
| Renal Tubule, Hyperplasia, Atypical         |             |    | 1  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    | 1   | 1.0 |     |

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

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

Experiment Number: 96014 - 05  
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 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| DAY ON TEST            | FISCHER 344-TACONIC RATS MALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS     |
|------------------------|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
|                        | 0                             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |              |
| 7                      | 6                             | 6 | 6 | 6 | 7 | 4 | 7 | 7 | 3 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 2 | 7 | 4 | 7 | 7 | 7 | 5 | 6 |              |
| 2                      | 7                             | 6 | 2 | 1 | 2 | 6 | 2 | 2 | 8 | 0 | 6 | 1 | 7 | 2 | 7 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 7 | 2 |   |              |
| 7                      | 8                             | 4 | 1 | 0 | 7 | 7 | 6 | 6 | 9 | 5 | 4 | 0 | 8 | 7 | 8 | 6 | 6 | 9 | 6 | 6 | 6 | 6 | 5 | 9 |   |              |
| ANIMAL ID              | 0                             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |              |
|                        | 0                             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |              |
| 3                      | 3                             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |              |
| 3                      | 4                             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |              |
| 9                      | 0                             | 1 | 2 | 3 | 4 | 5 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 |              |
|                        |                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b> |
| Renal Tubule, Necrosis |                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>     |
| Urinary Bladder        |                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b>    |

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

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

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

Experiment Number: 96014 - 05  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
Water disinfection byproducts (Bromodichloroacetic acid)  
CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
Time Report Requested: 08:02:51  
First Dose M/F: 10/26/06 / 10/27/06  
Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | 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 |                      |
|  | 4           | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 2 | 2 | 2 |                      |
|  | 3           | 0 | 8 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 8 | 2 | 2 | 9 | 1 | 0 | 2 | 2 | 8 | 8 | 2 | 2 | 8 |                      |
|  | 2           | 8 | 0 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 9 | 7 | 7 | 4 | 4 | 9 | 8 | 8 | 8 | 5 | 3 | 8 | 8 |                      |
|  | ANIMAL ID   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
|  | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                      |
|  | 0           | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |                      |
|  | 1           | 2 | 3 | 4 | 5 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |                      |

**ALIMENTARY SYSTEM**

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |                       | ANIMAL ID | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|-----------|----------------------|
|  | 0<br>4<br>3<br>2 | 0<br>6<br>0<br>8 | 0<br>6<br>8<br>0 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>3<br>5 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>2<br>9 | 0<br>7<br>2<br>7 | 0<br>6<br>2<br>4 | 0<br>7<br>1<br>4 | 0<br>7<br>0<br>9 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>6<br>2<br>8 | 0<br>7<br>4<br>5 | 0<br>6<br>7<br>3 | 0<br>7<br>2<br>8 | 0<br>7<br>2<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<br>0<br>4<br>0<br>1 |           |                      |

Necrosis, Multifocal  
 Tension Lipidosis  
 Bile Duct, Hyperplasia  
 Oval Cell, Hyperplasia

2  
 1

Mesentery  
 Fat, Necrosis

+  
 1

Pancreas  
 Atrophy  
 Acinus, Hyperplasia

+  
 2  
 1

Salivary Glands

+ +

Stomach, Forestomach  
 Inflammation  
 Ulcer  
 Epithelium, Hyperplasia

+  
 3  
 4  
 4

Stomach, Glandular  
 Mineralization

+ +

Tongue  
 Foreign Body  
 Inflammation  
 Ulcer  
 Epithelium, Hyperplasia

+  
 1

**CARDIOVASCULAR SYSTEM**

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  | females<br>(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|----------------------|
|  | 0<br>4<br>3<br>2      | 0<br>6<br>0<br>8      | 0<br>6<br>8<br>0      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>6<br>3<br>5      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>6<br>2<br>8      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>6<br>9<br>4      | 0<br>7<br>1<br>4      | 0<br>7<br>0<br>9      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>6<br>4<br>5      | 0<br>6<br>7<br>3      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      |                       |  |                      |
| ANIMAL ID                                    | 0<br>0<br>4<br>0<br>1 | 0<br>0<br>4<br>0<br>2 | 0<br>0<br>4<br>0<br>3 | 0<br>0<br>4<br>0<br>4 | 0<br>0<br>4<br>0<br>5 | 0<br>0<br>4<br>0<br>9 | 0<br>0<br>4<br>0<br>0 | 0<br>0<br>4<br>0<br>6 | 0<br>0<br>4<br>0<br>7 | 0<br>0<br>4<br>0<br>8 | 0<br>0<br>4<br>0<br>9 | 0<br>0<br>4<br>0<br>0 | 0<br>0<br>4<br>0<br>1 | 0<br>0<br>4<br>0<br>2 | 0<br>0<br>4<br>0<br>3 | 0<br>0<br>4<br>0<br>4 | 0<br>0<br>4<br>0<br>5 | 0<br>0<br>4<br>0<br>6 | 0<br>0<br>4<br>0<br>7 | 0<br>0<br>4<br>0<br>8 | 0<br>0<br>4<br>0<br>9 | 0<br>0<br>4<br>0<br>0 | 0<br>0<br>4<br>0<br>1 |  |                      |

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

**ENDOCRINE SYSTEM**

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

**GENERAL BODY SYSTEM**

NONE

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



Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
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 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |                       | ANIMAL ID | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|-----------|----------------------|
|  | 0<br>4<br>3<br>2 | 0<br>6<br>0<br>8 | 0<br>6<br>8<br>0 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>3<br>5 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>2<br>9 | 0<br>7<br>2<br>7 | 0<br>6<br>2<br>4 | 0<br>7<br>1<br>4 | 0<br>7<br>0<br>9 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>6<br>4<br>5 | 0<br>6<br>7<br>3 | 0<br>7<br>2<br>8 | 0<br>7<br>2<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<br>0<br>4<br>0<br>1 |           |                      |

**GENITAL SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia                       |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ovary                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                           |   |   | 4 |   |   |   |   | 1 |   |   |   | 3 | 4 |   |   |   |   |   |   |   |   |   |   |
| Cyst                              |   |   |   |   | 1 |   |   |   |   |   | 3 |   |   |   |   | 1 |   |   |   |   |   | 3 |   |
| Infiltration Cellular, Histiocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |
| Uterus                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cervix, Inflammation              |   |   |   |   |   |   |   |   |   |   |   | 3 | 3 |   |   |   |   |   |   |   |   |   |   |
| Cervix, Metaplasia, Squamous      |   |   |   |   |   |   |   |   |   |   | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Epithelium, Hyperplasia   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Hyperplasia, Cystic  | 2 |   |   |   |   |   |   | 3 |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |
| Vagina                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Epithelium, Hyperplasia           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |

**HEMATOPOIETIC SYSTEM**

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |
| Hemorrhage  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia | 3 | 2 | 4 | 3 |   |   |   |   |   |   |   |   |   | 1 | 1 | 2 |   | 3 | 2 |   | 4 | 1 | 2 |
| Necrosis    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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  
 2) Mild 4) Marked

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |                       |  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|-----------------------|--|
|  | 0<br>4<br>3<br>2 | 0<br>6<br>0<br>8 | 0<br>6<br>8<br>0 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>3<br>5 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>2<br>8 | 0<br>7<br>2<br>7 | 0<br>6<br>2<br>9 | 0<br>7<br>1<br>4 | 0<br>7<br>0<br>9 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>6<br>2<br>8 | 0<br>6<br>4<br>5 | 0<br>6<br>7<br>3 |           |                      | 0<br>7<br>2<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<br>0<br>4<br>0<br>1 |  |
|  | 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>0<br>1 |  |

Inguinal, Infiltration Cellular, Plasma Cell  
 Mediastinal, Infiltration Cellular, Histiocyte  
 Pancreatic, Infiltration Cellular, Histiocyte

Lymph Node, Mandibular  
 Infiltration Cellular, Plasma Cell

Lymph Node, Mesenteric  
 Atrophy

Spleen  
 Hematopoietic Cell Proliferation  
 Pigmentation, Hemosiderin  
 Capsule, Mineralization  
 Lymphoid Follicle, Atrophy

Thymus  
 Atrophy

**INTEGUMENTARY SYSTEM**

Mammary Gland  
 Inflammation

Skin  
 Cyst Epithelial Inclusion  
 Inflammation  
 Ulcer  
 Epidermis, Hyperplasia, Squamous

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue 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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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID             | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|----------------------|
|  | 0<br>4<br>3<br>2 | 0<br>6<br>0<br>8 | 0<br>6<br>8<br>0 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>3<br>5 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>9<br>4 | 0<br>7<br>1<br>4 | 0<br>7<br>0<br>9 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>6<br>4<br>5 | 0<br>6<br>7<br>3 | 0<br>7<br>2<br>8 | 0<br>7<br>2<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<br>0<br>4<br>0<br>1 |                      |

**MUSCULOSKELETAL SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Osteopetrosis          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**NERVOUS SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active                |   |   | 1 | 1 | 1 | 1 |   | 2 |   | 1 |   |   |   |   |   | 1 |   |   |   | 1 | 1 |   |   |
| Alveolar Epithelium, Hyperplasia            |   | 1 | 1 | 1 |   |   |   |   | 2 |   |   |   |   | 1 |   |   |   |   | 1 |   |   |   | 2 |
| Alveolar Epithelium, Hypertrophy            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
| Alveolus, Infiltration Cellular, Histiocyte |   | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mediastinum, Inflammation                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |
| Trachea                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ciliary Body, Fibrosis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |
| Iris, Inflammation     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |                       | ANIMAL ID | females<br>(cont...) |   |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|-----------|----------------------|---|
|  | 0<br>4<br>3<br>2 | 0<br>6<br>0<br>8 | 0<br>6<br>8<br>0 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>3<br>5 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>6<br>2<br>9 | 0<br>7<br>2<br>7 | 0<br>6<br>2<br>9 | 0<br>7<br>2<br>7 | 0<br>6<br>9<br>4 | 0<br>7<br>1<br>4 | 0<br>7<br>0<br>9 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>6<br>4<br>5 | 0<br>6<br>7<br>3 | 0<br>7<br>2<br>8 | 0<br>7<br>2<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<br>0<br>4<br>0<br>1 |           |                      |   |
| Lens, Cataract                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |                       | 3 2       |                      |   |
| Posterior Chamber, Inflammation              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |                       |           | 2                    |   |
| Retina, Degeneration                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |                       | 1         | 4 3                  | 4 |
| Retina, Gliosis                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |                       |           |                      |   |
| Harderian Gland                              | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |   |                       |           |                      |   |

**URINARY SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |       |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|-------|
| Kidney               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |   |       |
| Infarct              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |       |
| Inflammation         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |       |
| Mineralization       | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   | 1 | 1 | 1 | 1 | 1 |   | 1 |   |   | 1 |   |  | 1 |       |
| Nephropathy          |   | 1 | 1 | 1 |   | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | 1 | 2 |  |   | 2 2 2 |
| Cortex, Cyst         | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |       |
| Papilla, Necrosis    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |       |
| Pelvis, Inflammation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |       |
| Urinary Bladder      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |   |       |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

|  |               | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |
|--|---------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| <b>FISCHER 344-TACONIC RATS<br/>FEMALE</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>0 mg/L</b> | 6           | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7               | 7 |
|  | ANIMAL ID     | 4           | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 3 | 2 | 2 | 2 | 3 | 2 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2               |   |
|  |               | 1           | 5 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 1 | 5 | 7 | 8 | 8 | 8 | 8 | 0 | 8 | 0 | 8 | 8 | 8 | 8 | 8               |   |
|  |               | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |   |
|  |               | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |   |
|  |               | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4               |   |
|  |               | 3           | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6               |   |
|  |               | 4           | 5 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 8               |   |
|  |               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |         |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|
| Esophagus                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50      |
| Intestine Large, Cecum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50      |
| Intestine Large, Colon<br>Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50<br>6 |
| Intestine Large, Rectum                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50      |
| Intestine Small, Duodenum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50      |
| Intestine Small, Ileum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50      |
| Intestine Small, Jejunum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50      |
| Liver                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50      |
| Angiectasis                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   | 1 |        | 3 1.0   |
| Basophilic Focus                            | X | X |   | X | X | X | X | X | X |   | X | X | X | X | X |   | X | X | X | X | X | X | X | X      | 42      |
| Clear Cell Focus                            |   | X |   |   |   |   |   | X | X |   |   |   |   | X |   |   |   | X | X |   |   | X |   |        | 14      |
| Degeneration, Cystic                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 1.0   |
| Eosinophilic Focus                          |   |   |   |   | X |   | X |   |   |   |   |   | X | X |   |   |   |   |   | X |   | X |   |        | 6       |
| Fatty Change                                |   |   |   |   |   | 2 |   |   |   |   | 3 |   |   |   |   |   |   | 1 |   |   |   |   |   |        | 10 1.5  |
| Fatty Change, Focal                         |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 2.0   |
| Hematopoietic Cell Proliferation            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 3 1.0   |
| Hepatodiaphragmatic Nodule                  |   |   | X |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |        | 5       |
| Inflammation, Chronic Active                | 1 | 1 |   |   | 1 |   | 2 | 1 | 1 |   | 1 | 1 |   | 1 | 1 | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 36 1.0 |         |
| Mixed Cell Focus                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 2       |
| Necrosis                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 2 1.0   |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | 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 |   |   |    |
|  | 6           | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 3 | 7 | 6 | 7 |          | 7 | 7 | 7 | 7  |
| ANIMAL ID                                    | 4           | 3 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 9 | 2 | 2        | 2 | 2 | 2 | 2  |
|  | 1           | 5 | 8 | 8 | 8 | 8 | 7 | 7 | 1 | 5 | 7 | 8 | 8 | 8 | 8 | 0 | 8 | 0 | 8 | 8 | 8        | 7 | 7 | 7 | 7  |
|  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 | 0 | 0 | 0  |
|  | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4        | 4 | 4 | 4 | 4  |
|  | 3           | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4        | 4 | 4 | 4 | 4  |
|  | 4           | 5 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 5 | 6        | 7 | 8 | 9 | 6  |
| Necrosis, Multifocal                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   | 1  |
| Tension Lipidosis                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   | 1  |
| Bile Duct, Hyperplasia                       | 1           | 1 | 1 |   |   |   | 1 | 2 |   |   | 1 |   | 1 | 2 |   |   | 1 |   |   |   |          | 1 | 1 | 2 | 28 |
| Oval Cell, Hyperplasia                       |             |   |   |   |   |   | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   | 2  |
| Mesentery                                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   | 3  |
| Fat, Necrosis                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   | 3  |
| Pancreas                                     | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | + | + | + | 50 |
| Atrophy                                      |             |   | 1 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |          |   |   |   | 9  |
| Acinus, Hyperplasia                          |             |   |   | 1 |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |          | 1 | 1 |   | 6  |
| Salivary Glands                              | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | + | + | + | 50 |
| Stomach, Forestomach                         | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | + | + | + | 50 |
| Inflammation                                 |             |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |          |   |   |   | 2  |
| Ulcer  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   | 1  |
| Epithelium, Hyperplasia                      |             |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |          |   |   |   | 2  |
| Stomach, Glandular                           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | + | + | + | 50 |
| Mineralization                               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   | 1 |   | 1  |
| Tongue                                       | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | + | + | + | 50 |
| Foreign Body                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   | X |   | 1  |
| Inflammation                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   | 1 |   | 1  |
| Ulcer  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   | 1  |
| Epithelium, Hyperplasia                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   | 1 |   | 1  |

**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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
|  | 0641        | 0635  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  |          | 0678  | 0678  | 0678  |
| ANIMAL ID                                    | 00434       | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444    | 00444 | 00444 | 00444 |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0     | 0     |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0     | 0     |

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Blood Vessel   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |
| Cardiomyopathy | 1 | 1 | 1 | 1 |   |   | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2  | 45 | 1.5 |

**ENDOCRINE SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Adrenal Cortex                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Degeneration, Cystic             | 1 |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   | 4  | 1.5 |     |
| Hematopoietic Cell Proliferation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |     |
| Hypertrophy                      |   |   |   |   | 1 | 2 |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | 5  | 1.4 |     |
| Vacuolization Cytoplasmic        | 1 |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 1.0 |     |
| Adrenal Medulla                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Hyperplasia                      |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.0 |     |
| Islets, Pancreatic               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Parathyroid Gland                | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | 47 |     |     |
| Pituitary Gland                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Pars Distalis, Hyperplasia       | 1 |   |   | 4 | 1 |   |   |   |   | 4 |   |   |   | 1 | 2 | 2 |   |   |   |   | 4 |   |   | 3 | 2  | 15  | 2.6 |
| Thyroid Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| C-cell, Hyperplasia              |   | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |   |   | 1 | 4 | 1 |   | 3 |   |   | 2 |   | 1 | 1 |   | 1 | 1  | 33  | 1.6 |
| Follicular Cell, Hyperplasia     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |

**GENERAL BODY SYSTEM**

NONE

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>6<br>4<br>1      | 0<br>6<br>3<br>5      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>5<br>1           | 0<br>6<br>3<br>5      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>3<br>2<br>0      | 0<br>7<br>2<br>8      | 0<br>6<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      |                       | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      |
| ANIMAL ID                                    | 0<br>0<br>4<br>3<br>4 | 0<br>0<br>4<br>3<br>5 | 0<br>0<br>4<br>4<br>1 | 0<br>0<br>4<br>4<br>2 | 0<br>0<br>4<br>4<br>3 | 0<br>0<br>4<br>4<br>4 | 0<br>0<br>4<br>4<br>5 | 0<br>0<br>4<br>4<br>6 | 0<br>0<br>4<br>4<br>7 | 0<br>0<br>4<br>4<br>8 | 0<br>0<br>4<br>4<br>9 | 0<br>0<br>4<br>4<br>0 | 0<br>0<br>4<br>4<br>1 | 0<br>0<br>4<br>4<br>2 | 0<br>0<br>4<br>4<br>3 | 0<br>0<br>4<br>4<br>4 | 0<br>0<br>4<br>4<br>5 | 0<br>0<br>4<br>4<br>6 | 0<br>0<br>4<br>4<br>7 | 0<br>0<br>4<br>4<br>8 | 0<br>0<br>4<br>4<br>9 | 0<br>0<br>4<br>4<br>0 | 0<br>0<br>4<br>4<br>1 |

**GENITAL SYSTEM**

|                                   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |        |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Clitoral Gland                    | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |        |
| Cyst                              | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1 4.0  |
| Hyperplasia                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1 2.0  |
| Inflammation                      | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2 4.0  |
| Ovary                             | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |        |
| Atrophy                           | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 9 2.9  |
| Cyst                              | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 10 1.5 |
| Infiltration Cellular, Histiocyte | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1 3.0  |
| Uterus                            | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |        |
| Cervix, Inflammation              |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2 3.0  |
| Cervix, Metaplasia, Squamous      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2 2.0  |
| Cervix, Epithelium, Hyperplasia   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1 2.0  |
| Endometrium, Hyperplasia, Cystic  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 10 2.0 |
| Vagina                            |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1      |
| Epithelium, Hyperplasia           |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1 2.0  |

**HEMATOPOIETIC SYSTEM**

|             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |        |
|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Bone Marrow | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |        |
| Angiectasis |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1 1.0  |
| Hemorrhage  | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1 3.0  |
| Hyperplasia | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 23 2.5 |
| Necrosis    | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1 3.0  |
| Lymph Node  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 4      |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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 CAS Number: 71133-14-7

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 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>0 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|
|  | 0641        | 0635  | 0672  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  | 0678  |          | 0678  | 0678 |
| ANIMAL ID                                    | 00434       | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444    | 00444 |      |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0    |

**MUSCULOSKELETAL SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Fibrous Osteodystrophy |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Osteopetrosis          |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   | 2 2.5 |

**NERVOUS SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |        |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50     |
| Inflammation, Chronic Active                |   | 1 |   |   | 1 |   | 1 | 1 | 1 |   | 1 |   |   |   |   |   | 1 |   | 1 | 1 |   | 1 |        | 20 1.1 |
| Alveolar Epithelium, Hyperplasia            |   |   |   |   | 1 |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   | 1 |   |   |        | 11 1.3 |
| Alveolar Epithelium, Hypertrophy            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 1.0  |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 |   | 1 |   | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 |   |   | 1 | 38 1.0 |        |
| Mediastinum, Inflammation                   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 2.0  |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50     |
| Foreign Body                                | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 2      |
| Inflammation                                | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 1 |        | 5 1.6  |
| Trachea                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50     |

**SPECIAL SENSES SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Ciliary Body, Fibrosis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |
| Iris, Inflammation     |   |   |   |   |   |   |   |   |   |   |   | 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



Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ANIMAL ID | females<br>(cont...) |        |  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------------------|--------|--|
|  | 0711228     | 07228 | 07728 | 07728 | 07728 | 07578 | 07774 | 07665 | 07772 | 07665 | 07778 | 07665 | 07778 | 07665 | 07778 | 07665 | 07778 | 07665 | 07778 | 07665 |           |                      | 07778  |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005001 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005501 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005503 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005504 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005505 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005506 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005507 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005508 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005509 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005510 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005511 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005512 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005513 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005514 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005515 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005516 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005517 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005518 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005519 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005520 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005521 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005522 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005523 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005524 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005525 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005526 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005527 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005528 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005529 |  |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0                    | 005530 |  |

**ALIMENTARY SYSTEM**

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

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L                           | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | ANIMAL ID | females<br>(cont...) |        |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|----------------------|--------|
|  | 071122      | 071228 | 071728 | 072228 | 072728 | 073228 | 073728 | 074228 | 074728 | 075228 | 075728 | 080228 | 080728 | 081228 | 081728 | 082228 | 082728 | 083228 | 083728 | 084228 | 084728 | 085228 | 085728 | 090228 |           |                      | 090728 |
| Bile Duct, Hyperplasia   | 2           |        | 1      | 1      |        |        |        | 1      |        | 1      |        |        |        | 1      | 2      | 1      |        | 1      | 1      | 1      |        |        |        | 1      |           |                      |        |
| Mesentery<br>Fat, Necrosis   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           | +                    |        |
| Pancreas<br>Atrophy<br>Acinus, Hyperplasia                               |             | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                    |        |
| Salivary Glands<br>Degeneration<br>Inflammation                          |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           | +                    |        |
| Stomach, Forestomach<br>Inflammation<br>Ulcer<br>Epithelium, Hyperplasia |             | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                    |        |
| Stomach, Glandular   |             | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                    |        |
| Tongue   |             | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                    |        |
| <b>CARDIOVASCULAR SYSTEM</b>   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |           |                      |        |
| Blood Vessel   |             | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                    | +      |
| Heart<br>Cardiomyopathy<br>Atrium, Thrombosis                            |             | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +         | +                    | +      |
|  |             | 2      | 2      | 1      | 2      | 1      | 2      | 1      | 2      | 1      | 2      | 1      | 2      |        | 1      | 2      | 1      | 1      | 1      | 2      | 2      | 1      | 1      | 2      | 2         | 3                    |        |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

|  |           | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | females<br>(cont...) |
|--|-----------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | ANIMAL ID | 071122      | 071228 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 | 071728 |                      |
|  | 00501     | 00502       | 00503  | 00504  | 00505  | 00506  | 00507  | 00508  | 00509  | 00510  | 00511  | 00512  | 00513  | 00514  | 00515  | 00516  | 00517  | 00518  | 00519  | 00520  | 00521  | 00522  | 00523  | 00524  | 00525  |                      |
|  |           | 0           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                    |
|  |           | 0           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0                    |
|  |           | 5           | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      |                      |
|  |           | 0           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |                      |
|  |           | 1           | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 0      | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 0      | 1      | 2      | 3      | 4      |                      |

**ENDOCRINE SYSTEM**

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cyst            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |
| Hyperplasia                   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Vacuolization Cytoplasmic     |   |   |   |   |   | 2 |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |
| Zona Fasciculata, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland             | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |
| Pituitary Gland               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                          |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Hyperplasia    | 3 | 4 |   |   | 2 |   | 3 | 3 | 3 | 4 | 3 | 3 |   |   | 1 |   |   |   |   |   |   | 4 |   |   |
| Thyroid Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                          | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Hyperplasia           | 1 | 1 | 1 | 1 |   |   | 1 | 3 | 3 | 1 |   |   |   | 1 | 1 |   |   | 1 | 1 |   | 1 | 1 |   | 2 |
| Follicular Cell, Hyperplasia  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

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

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
|  | 0<br>7<br>1<br>2 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>5<br>6<br>8 | 0<br>7<br>2<br>7 | 0<br>7<br>0<br>4 | 0<br>6<br>4<br>5 | 0<br>7<br>1<br>2 | 0<br>7<br>0<br>7 | 0<br>6<br>5<br>8 | 0<br>5<br>2<br>7 | 0<br>6<br>4<br>5 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>6<br>0<br>1 | 0<br>7<br>2<br>8 | 0<br>6<br>0<br>7 | 0<br>7<br>2<br>8 | 0<br>5<br>7<br>9 | 0<br>7<br>2<br>8 | 0<br>5<br>7<br>8 | 0<br>7<br>2<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                | 00501            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00502            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00503            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00504            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00505            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00506            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00507            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00508            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00509            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00510            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00511            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00512            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00513            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00514            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00515            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00516            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00517            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00518            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00519            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00520            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00521            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00522            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00523            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00524            |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00525            |           |                      |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland                   | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia                      | 2 |   |   |   | 1 |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |
| Ovary                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                          | 1 |   |   |   | 3 |   |   |   | 2 |   | 3 |   |   | 1 |   |   | 2 |   |   |   |   |   |
| Cyst                             | 2 |   |   |   |   |   |   |   | 1 | 1 |   |   |   | 1 |   |   |   |   | 1 |   |   |   |
| Uterus                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cervix, Hypertrophy              |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   | 4 |   |
| Cervix, Inflammation             |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |
| Cervix, Metaplasia, Squamous     |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Hyperplasia, Cystic |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 1 |   |   |   |   | 2 |   |   |

**HEMATOPOIETIC SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                        |   |   | 1 |   |   |   | 1 |   | 2 | 1 | 1 |   | 2 |   |   | 1 | 1 |   | 1 | 2 |   |   |
| Hemorrhage                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |
| Hyperplasia                        | 3 | 1 |   |   | 3 | 3 | 3 |   | 3 | 3 | 3 | 3 | 3 | 4 | 4 |   | 3 | 1 | 2 |   | 1 | 3 |
| Infiltration Cellular, Histiocyte  |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node                         |   |   |   |   |   |   |   |   |   |   | + |   |   | + | + |   |   |   |   |   |   |   |
| Lumbar, Ectasia                    |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Hyperplasia, Lymphoid |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | 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 |                      |
|  | 7           | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 |                      |
| ANIMAL ID                                      | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
| Lymph Node, Mesenteric                         | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                      |
| Spleen   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                      |
| Hematopoietic Cell Proliferation               |             |   |   |   | 2 |   |   | 2 | 3 |   | 3 | 2 |   |   |   |   | 3 | 2 |   | 2 |                      |
| Hyperplasia, Lymphoid                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |                      |
| Pigmentation, Hemosiderin                      | 1           | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 | 1 | 2 | 1 | 1 | 2 |                      |
| Lymphoid Follicle, Atrophy                     |             |   |   |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      |
| Thymus   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                      |
| Atrophy  | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 |                      |
| <b>INTEGUMENTARY SYSTEM</b>                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Mammary Gland                                  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                      |
| Galactocele                                    |             |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Hyperplasia                                    | 2           |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   | 1 |   |   |                      |
| Skin   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                      |
| Cyst Epithelial Inclusion                      |             |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |                      |
| <b>MUSCULOSKELETAL SYSTEM</b>                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Bone   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                      |
| Fibrous Osteodystrophy                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Osteopetrosis                                  |             |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Tibia, Fracture                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |
| Skeletal Muscle                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |

**NERVOUS SYSTEM**

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

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 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |                       |                  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|-----------------------|------------------|
|  | 0<br>7<br>1<br>2 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>7<br>2<br>8 | 0<br>5<br>6<br>8 | 0<br>7<br>2<br>7 | 0<br>7<br>6<br>4 | 0<br>6<br>7<br>5 | 0<br>7<br>2<br>2 | 0<br>7<br>0<br>1 | 0<br>6<br>1<br>2 | 0<br>7<br>0<br>5 | 0<br>5<br>2<br>8 | 0<br>6<br>7<br>5 | 0<br>7<br>2<br>8 | 0<br>6<br>2<br>1 | 0<br>7<br>2<br>7 | 0<br>7<br>2<br>7 | 0<br>5<br>7<br>9 |           |                      | 0<br>7<br>2<br>8      | 0<br>7<br>2<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<br>0<br>5<br>0<br>1 |                  |

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Brain Necrosis   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Lung Inflammation, Chronic Active           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |     |
| Alveolar Epithelium, Hyperplasia            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1   |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |     |
| Bronchiole, Hyperplasia                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
| Nose Foreign Body                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |     |
| Nose Inflammation                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2   |
| Trachea                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |     |

**SPECIAL SENSES SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye Cornea, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Eye Lens, Cataract       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eye Retina, Degeneration |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Eye Retina, Gliosis      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lacrimal Gland           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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 Lab: BAT

| DAY ON TEST | FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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 |           |   |
| 7           | 7  | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 0         |   |
| 1           | 2  | 2 | 2 | 2 | 2 | 6 | 2 | 0 | 4 | 1 | 2 | 0 | 5 | 2 | 4 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 7 | 2 | 0         |   |
| 2           | 8  | 8 | 8 | 8 | 8 | 8 | 7 | 4 | 5 | 2 | 7 | 7 | 8 | 7 | 5 | 8 | 8 | 8 | 1 | 8 | 7 | 9 | 8 | 8 | 0         |   |
|             | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5         |   |
|             | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5         |   |
|             | 5  | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0         |   |
|             | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 1         | 1 |

females  
(cont...)

**URINARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infarct                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infiltration Cellular, Lymphoid         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Mineralization                          |   |   |   |   |   |   |   | 1 |   | 1 |   |   |   | 1 | 1 |   |   |   |   |   |   | 1 | 1 |   |
| Nephropathy                             | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 |   | 2 | 2 | 2 | 1 | 1 | 1 | 1 |   | 2 | 1 |   |   |
| Pelvis, Calculus Micro Observation Only |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   | X |   |   |   |
| Renal Tubule, Hyperplasia, Atypical     |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Transitional Epithelium, Hyperplasia    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|
|  | 0728        | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  |          | 0728  | 0728 |
| ANIMAL ID                                      | 00539       | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539    | 00539 |      |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0    |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0    |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum<br>Inflammation      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon<br>Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|   |   | X |   | X |   |   |   |   |   | X |   |   | X |   |   | X |   |   |   |   | X | X |   | 9  |
| Intestine Large, Rectum                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus                            | X | X | X | X | X | X | X | X | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | 46 |
| Clear Cell Focus                            |   | X |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 10 |
| Degeneration, Cystic                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Eosinophilic Focus                          |   |   |   | X |   | X |   | X |   |   |   |   | X | X | X |   |   |   |   | X |   | X |   | 13 |
| Fatty Change                                |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   | 1 |   |   |   |   | 1 | 1 |   | 7  |
| Fatty Change, Focal                         | 1 |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Hematopoietic Cell Proliferation            |   |   |   |   | 1 |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   | 1 |   |   |   | 7  |
| Hepatodiaphragmatic Nodule                  |   |   |   | X |   | X |   |   |   |   |   |   | X |   | X |   |   |   | X |   |   |   |   | 9  |
| Inflammation, Chronic Active                | 1 | 1 | 1 | 2 | 1 | 1 |   | 1 | 2 |   | 1 |   | 1 | 1 | 1 |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 33 |
| Mixed Cell Focus                            |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   | X |   |   |   |   | 3  |
| Necrosis                                    |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | * TOTALS |      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----------|------|
|  | 0728        | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728    |          | 0728 |
| ANIMAL ID                                      | 00539       | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539   | 00539    |      |
| Bile Duct, Hyperplasia                         |             |       |       | 1     | 1     |       | 2     |       |       | 1     | 2     | 1     | 1     | 1     | 1     | 2     | 1     | 1     |       |       |       |       |       | 1       | 27 1.2   |      |
| Mesentery                                      |             |       |       |       |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 4        |      |
| Fat, Necrosis                                  |             |       |       |       |       |       | 2     |       |       | 1     |       |       |       |       | 2     |       |       |       |       |       |       |       |       |         | 4 1.5    |      |
| Pancreas                                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50      |          |      |
| Atrophy  |             | 1     |       |       |       |       | 1     |       |       | 1     |       |       |       | 1     |       |       | 1     |       | 1     |       |       |       |       | 13 1.0  |          |      |
| Acinus, Hyperplasia                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 1.0   |          |      |
| Salivary Glands                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50      |          |      |
| Degeneration                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 2.0   |          |      |
| Inflammation                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 2.0   |          |      |
| Stomach, Forestomach                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50      |          |      |
| Inflammation                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4 1 4.0 |          |      |
| Ulcer  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2 1 2.0 |          |      |
| Epithelium, Hyperplasia                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2 1 2.0 |          |      |
| Stomach, Glandular                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50      |          |      |
| Tongue   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50      |          |      |
| <b>CARDIOVASCULAR SYSTEM</b>                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |          |      |
| Blood Vessel                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50      |          |      |
| Heart  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50      |          |      |
| Cardiomyopathy                                 | 2           | 2     |       | 2     | 1     | 2     | 1     | 1     | 2     | 1     | 1     |       | 1     | 2     | 1     |       |       |       | 1     | 1     |       | 1     | 2     | 42 1.5  |          |      |
| Atrium, Thrombosis                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 3.0   |          |      |

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

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

|   |   | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |
|---|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|---|
| <b>FISCHER 344-TACONIC RATS<br/>FEMALE<br/>250 mg/L</b> |   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 |   |   |   |
|   |   | 7           | 7 | 5 | 6 | 7 | 7 | 7 | 5 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 5 | 5 | 6               | 7 | 7 | 5 |   |
|   |   | 2           | 2 | 8 | 4 | 2 | 2 | 2 | 8 | 2 | 9 | 2 | 2 | 3 | 2 | 2 | 8 | 2 | 0 | 2 | 5 | 5               | 5 | 0 | 1 | 9 |
|   | 8 | 8           | 8 | 5 | 7 | 7 | 7 | 8 | 7 | 3 | 3 | 7 | 1 | 7 | 7 | 3 | 7 | 4 | 8 | 1 | 8 | 2               | 9 | 2 | 4 |   |
|   |   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 | 0 | 0 |   |
|   |   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               | 0 | 0 | 0 |   |
|   |   | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5               | 5 | 5 | 5 |   |
|   |   | 3           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6               | 6 | 6 | 6 |   |
|   |   | 9           | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8               | 9 | 0 | 3 |   |
|   |   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |   |   |   |

**ENDOCRINE SYSTEM**

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |               |               |  |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|---------------|--|
| Adrenal Cortex                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |               |               |  |
| Degeneration, Cystic          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |               |               |  |
| Hyperplasia                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |               |               |  |
| Vacuolization Cytoplasmic     | 3 |   |   |   |   | 1 |   |   |   | 2 |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |           |               |               |  |
| Zona Fasciculata, Hyperplasia |   |   |   | 1 |   |   |   |   | 3 |   |   |   |   |   | 2 |   |   |   |   |   | 1 |   |   |   |           |               |               |  |
| Adrenal Medulla               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |               |               |  |
| Islets, Pancreatic            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |               |               |  |
| Parathyroid Gland             | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | <b>46</b> |               |               |  |
| Pituitary Gland               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |               |               |  |
| Cyst                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |               | <b>1 3.0</b>  |  |
| Inflammation                  | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |               | <b>1 1.0</b>  |  |
| Pars Distalis, Hyperplasia    |   |   |   | 1 |   |   | 2 |   |   |   | 3 |   |   | 2 |   |   |   |   |   | 1 |   |   |   | 1 |           |               | <b>18 2.5</b> |  |
| Thyroid Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |               |               |  |
| Cyst                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |               | <b>1 4.0</b>  |  |
| C-cell, Hyperplasia           | 3 | 1 |   | 4 |   | 1 | 1 |   | 1 | 3 |   | 1 | 1 | 4 | 1 | 1 | 1 |   | 1 |   | 2 |   | 3 |   |           | <b>31 1.6</b> |               |  |
| Follicular Cell, Hyperplasia  |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |           |               | <b>2 2.0</b>  |  |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

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

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |      |  |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
|  | 0728        | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  |          | 0728 |  |
| ANIMAL ID                                      | 00539       | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539    |      |  |
| Clitoral Gland                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |      |  |
| Cyst   |             |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Hyperplasia                                    |             |       |       |       |       | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     | 5        |      |  |
| Ovary  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Atrophy  |             | 2     | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       | 9        |      |  |
| Cyst   |             |       |       | 1     |       | 1     | 2     |       | 1     |       |       |       | 1     | 2     |       |       | 1     |       |       |       |       |       |       |       | 12       |      |  |
| Uterus   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Atrophy  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Cervix, Hypertrophy                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Cervix, Inflammation                           |             |       |       |       |       |       |       |       |       |       |       |       | 3     |       |       |       | 2     |       |       |       |       |       |       |       | 3        |      |  |
| Cervix, Metaplasia, Squamous                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Endometrium, Hyperplasia, Cystic               | 1           |       |       | 2     |       | 1     |       |       |       |       | 2     | 1     |       |       |       |       |       |       |       |       |       | 1     |       |       | 9        |      |  |
| <b>HEMATOPOIETIC SYSTEM</b>                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |  |
| Bone Marrow                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Angiectasis                                    |             |       | 1     | 2     | 1     | 1     |       |       |       |       | 2     |       |       |       |       |       | 2     |       |       | 2     | 2     |       |       | 2     | 19       |      |  |
| Hemorrhage                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Hyperplasia                                    |             | 4     | 3     |       |       |       | 3     | 2     | 2     | 4     |       |       | 4     | 2     | 3     | 2     | 3     | 1     | 2     |       | 3     | 3     | 1     | 4     | 35       |      |  |
| Infiltration Cellular, Histiocyte              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Lymph Node                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4        |      |  |
| Lumbar, Ectasia                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Mediastinal, Hyperplasia, Lymphoid             |             |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Lymph Node, Mandibular                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | DAY ON TEST |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | * TOTALS |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|  | 07<br>28    | 07<br>28 | 05<br>88 | 06<br>45 | 07<br>27 | 07<br>27 | 07<br>27 | 05<br>88 | 07<br>27 | 06<br>63 | 06<br>63 | 07<br>27 | 06<br>63 | 07<br>27 | 06<br>63 | 07<br>27 | 06<br>63 | 07<br>27 | 05<br>88 | 05<br>88 | 06<br>63 | 07<br>27 | 07<br>27 | 05<br>88 |          |
| ANIMAL ID                                      | 00539       | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    | 00539    |          |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |     |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Lymph Node, Mesenteric           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |     |     |
| Spleen                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |     |     |
| Hematopoietic Cell Proliferation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 13  | 2.4 |
| Hyperplasia, Lymphoid            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 1   | 3.0 |
| Pigmentation, Hemosiderin        | 1 | 1 |   | 1 | 1 | 1 | 1 | 2 | 1 |   | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 | 2 |   | 1 | 2 | 2 |    | 43 | 1.2 |     |
| Lymphoid Follicle, Atrophy       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |    | 1  | 2.0 |     |
| Thymus                           | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 49 |    |     |     |
| Atrophy                          | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   | 3 | 3 |   | 3 | 3 | 3 | 3 | 2 | 3 | 3 |    | 48 | 3.0 |     |

**INTEGUMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Mammary Gland             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |     |
| Galactoceles              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 4.0 |
| Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 4 | 1.3 |
| Skin                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |     |
| Cyst Epithelial Inclusion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |     |

**MUSCULOSKELETAL SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Bone                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |     |
| Fibrous Osteodystrophy |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 2.0 |
| Osteopetrosis          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 | 2.0 |
| Tibia, Fracture        |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |    | 1 |     |
| Skeletal Muscle        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |     |

**NERVOUS SYSTEM**

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |                |   |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------------|---|
|  | 0728        | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  | 0728  |          | 0728           |   |
| ANIMAL ID                                      | 00539       | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539    |                |   |
| Brain Hemorrhage                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50             |   |
| Brain Necrosis                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        | 2 1.5<br>1 2.0 |   |
| <b>RESPIRATORY SYSTEM</b>                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |                |   |
| Lung Inflammation, Chronic Active              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50             |   |
| Alveolar Epithelium, Hyperplasia               |             |       |       | 1     | 1     | 1     | 1     | 1     | 3     | 1     |       | 1     |       | 1     | 1     |       | 1     | 1     |       | 1     |          | 26 1.1         |   |
| Alveolus, Infiltration Cellular, Histiocyte    | 1           | 1     | 1     | 1     | 1     | 1     |       | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1        | 46 1.0         |   |
| Bronchiole, Hyperplasia                        |             |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 1.0          |   |
| Nose Foreign Body                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50             |   |
| Nose Inflammation                              |             |       |       |       |       |       |       |       |       |       |       | 1     |       | 1     |       |       |       |       |       |       |          | 1 5 1.2        |   |
| Trachea  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50             |   |
| <b>SPECIAL SENSES SYSTEM</b>                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |                |   |
| Eye Cornea, Inflammation                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50             |   |
| Eye Lens, Cataract                             | 1           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 1.0          |   |
| Eye Retina, Degeneration                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2 2.0          |   |
| Eye Retina, Gliosis                            |             |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 2.0          |   |
| Harderian Gland                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50             |   |
| Lacrimal Gland                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | +        | +              | 2 |

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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>250 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>2<br>8      | 0<br>7<br>2<br>8      | 0<br>5<br>8<br>8      | 0<br>6<br>4<br>5      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>7<br>2<br>7      | 0<br>5<br>8<br>8      | 0<br>7<br>2<br>7      | 0<br>6<br>6<br>3      | 0<br>7<br>6<br>3      | 0<br>6<br>7<br>1      | 0<br>7<br>6<br>7      | 0<br>7<br>2<br>7      | 0<br>6<br>8<br>3      | 0<br>7<br>2<br>7      | 0<br>7<br>7<br>4      | 0<br>5<br>5<br>8      | 0<br>5<br>5<br>2      | 0<br>6<br>5<br>2      | 0<br>7<br>0<br>9      | 0<br>7<br>1<br>2      | 0<br>5<br>9<br>4      |                       |                       |                       |
| ANIMAL ID                                      | 0<br>0<br>5<br>3<br>9 | 0<br>0<br>5<br>4<br>0 | 0<br>0<br>5<br>4<br>1 | 0<br>0<br>5<br>4<br>2 | 0<br>0<br>5<br>4<br>4 | 0<br>0<br>5<br>4<br>4 | 0<br>0<br>5<br>4<br>4 | 0<br>0<br>5<br>4<br>5 | 0<br>0<br>5<br>4<br>6 | 0<br>0<br>5<br>4<br>7 | 0<br>0<br>5<br>4<br>8 | 0<br>0<br>5<br>4<br>9 | 0<br>0<br>5<br>5<br>0 | 0<br>0<br>5<br>5<br>1 | 0<br>0<br>5<br>5<br>2 | 0<br>0<br>5<br>5<br>3 | 0<br>0<br>5<br>5<br>4 | 0<br>0<br>5<br>5<br>5 | 0<br>0<br>5<br>5<br>6 | 0<br>0<br>5<br>5<br>7 | 0<br>0<br>5<br>5<br>8 | 0<br>0<br>5<br>5<br>9 | 0<br>0<br>6<br>6<br>0 | 0<br>0<br>6<br>6<br>1 | 0<br>0<br>6<br>6<br>2 | 0<br>0<br>6<br>6<br>3 |

**URINARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Kidney                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |     |
| Infarct                                 |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 1.0 |     |
| Infiltration Cellular, Lymphoid         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 2.0 |     |
| Mineralization                          | 1 | 1 | 1 |   |   |   |   | 1 |   | 1 | 1 | 1 | 1 |   |   |   | 1 | 1 |   | 1 | 1 | 1 | 1 |   |   | 21 | 1.0 |     |     |
| Nephropathy                             | 2 | 2 | 1 | 1 |   | 1 | 1 |   | 2 | 1 | 1 | 1 |   | 1 | 2 | 2 | 1 | 1 |   | 2 |   | 1 | 1 |   | 1 | 40 | 1.3 |     |     |
| Pelvis, Calculus Micro Observation Only |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3   |     |     |
| Renal Tubule, Hyperplasia, Atypical     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 1.0 |     |
| Urinary Bladder                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |     |
| Transitional Epithelium, Hyperplasia    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2   | 1   | 2.0 |

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Experiment Number: 96014 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>500 mg/L | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|  | 0673        | 0675 | 0678 | 0672 | 0674 | 0675 | 0679 | 0672 | 0673 | 0674 | 0671 | 0675 | 0678 | 0678 | 0676 | 0678 | 0670 | 0676 | 0673 | 0670 | 0673 | 0671 | 0674 | 0676 |           |                      |
|  | 06          | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06   | 06        |                      |
|  | 75          | 75   | 72   | 72   | 79   | 75   | 79   | 72   | 72   | 73   | 73   | 74   | 72   | 79   | 78   | 75   | 72   | 75   | 75   | 74   | 72   | 73   | 74   | 72   | 76        |                      |
|  | 36          | 36   | 38   | 37   | 34   | 36   | 34   | 33   | 39   | 34   | 31   | 35   | 38   | 38   | 36   | 38   | 30   | 36   | 36   | 33   | 30   | 31   | 31   | 37   | 33        |                      |
|  | 00          | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00        |                      |
|  | 66          | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66   | 66        |                      |
|  | 00          | 00   | 00   | 00   | 00   | 01   | 01   | 01   | 01   | 01   | 02   | 02   | 02   | 02   | 03   | 03   | 03   | 03   | 03   | 03   | 03   | 03   | 03   | 03   | 03        |                      |
|  | 45          | 45   | 46   | 47   | 48   | 49   | 40   | 46   | 47   | 48   | 49   | 42   | 46   | 47   | 48   | 49   | 40   | 42   | 43   | 43   | 44   | 45   | 46   | 48   | 43        |                      |

**ALIMENTARY SYSTEM**

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

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

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





Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>500 mg/L | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|  | 0673        | 0675 | 0678 | 0672 | 0674 | 0676 | 0675 | 0679 | 0672 | 0673 | 0674 | 0671 | 0675 | 0678 | 0678 | 0676 | 0678 | 0676 | 0676 | 0674 | 0672 | 0673 | 0674 | 0671 | 0677 |           |                      |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         |                      |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         |                      |
|  | 6           | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6         |                      |
|  | 7           | 5    | 2    | 2    | 9    | 5    | 9    | 2    | 2    | 3    | 3    | 4    | 2    | 9    | 8    | 5    | 2    | 5    | 5    | 4    | 2    | 3    | 4    | 2    | 6    | 3         |                      |
|  | 3           | 6    | 8    | 7    | 4    | 6    | 4    | 3    | 9    | 4    | 1    | 5    | 8    | 8    | 8    | 6    | 8    | 0    | 6    | 3    | 0    | 1    | 1    | 7    | 6    | 3         |                      |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         |                      |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         |                      |
|  | 6           | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6         |                      |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 1    | 1    | 2    | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3         |                      |
|  | 4           | 5    | 6    | 7    | 8    | 9    | 0    | 6    | 7    | 8    | 9    | 0    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 3         |                      |

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyst                                  | 1 |   |   | 2 | 1 |   |   | 1 |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 |
| Uterus                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cervix, Hypertrophy                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |
| Endometrium, Hyperplasia, Adenomatous |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Hyperplasia, Cystic      |   |   |   |   |   | 1 |   | 1 |   |   |   | 1 |   |   | 1 | 3 |   |   |   |   | 2 |   |   |   |   |   |   |   |

**HEMATOPOIETIC SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Angiectasis                        | 1 |   |   |   | 1 | 2 |   | 1 |   | 1 | 2 | 2 |   | 1 | 2 | 2 |   |   | 2 | 3 | 2 | 2 | 1 |   |   | 3 |   |   |
| Hyperplasia                        | 1 |   | 1 | 2 | 2 | 3 | 4 |   | 2 |   | 3 | 3 | 3 | 3 |   | 2 |   | 3 | 3 |   | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
| Infiltration Cellular, Histiocyte  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node                         |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                            |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infiltration Cellular, Plasma Cell |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                            | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |
| Ectasia                            |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spleen                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation   | 1 |   |   |   | 2 | 2 | 2 |   | 1 |   | 1 |   | 3 |   |   |   | 1 |   |   |   | 2 | 2 | 2 | 3 |   |   |   |   |
| Pigmentation, Hemosiderin          | 2 |   | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |   | 2 | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
| Lymphoid Follicle, Atrophy         |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymus                             | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>500 mg/L | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |      |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|------|
|  | 0673        | 0675 | 0672 | 0678 | 0674 | 0679 | 0675 | 0679 | 0672 | 0673 | 0674 | 0671 | 0675 | 0678 | 0678 | 0676 | 0678 | 0670 | 0676 | 0673 |           |                      | 0670 | 0671 | 0674 | 0672 | 0673 | 0677 |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 6           | 6    | 6    | 7    | 4    | 6    | 5    | 6    | 4    | 3    | 6    | 6    | 7    | 6    | 5    | 6    | 7    | 6    | 6    | 6    | 6         | 6                    | 6    | 6    | 6    | 7    | 6    | 6    |
|  | 7           | 5    | 2    | 2    | 9    | 5    | 9    | 2    | 2    | 3    | 3    | 4    | 2    | 9    | 8    | 5    | 2    | 5    | 5    | 4    | 2         | 3                    | 4    | 2    | 6    | 6    | 6    |      |
|  | 3           | 6    | 8    | 7    | 4    | 6    | 4    | 3    | 9    | 4    | 1    | 5    | 8    | 8    | 8    | 6    | 8    | 0    | 6    | 3    | 0         | 1                    | 1    | 7    | 6    | 3    | 3    |      |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    | 0    | 0    | 0    | 0    | 0    |      |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    | 0    | 0    | 0    | 0    | 0    |      |
|  | 6           | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6         | 6                    | 6    | 6    | 6    | 6    | 6    |      |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 1    | 1    | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 3         | 3                    | 3    | 3    | 3    | 3    | 3    |      |
|  | 4           | 5    | 6    | 7    | 8    | 9    | 0    | 0    | 6    | 7    | 8    | 9    | 0    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3         | 3                    | 4    | 5    | 6    | 7    | 8    |      |

Atrophy 3 3 3 3 3 3 3 1 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 3

**INTEGUMENTARY SYSTEM**

Mammary Gland Hyperplasia +  
 2

Skin Sebaceous Gland, Hyperplasia +

**MUSCULOSKELETAL SYSTEM**

Bone Hyperplasia Osteopetrosis +  
 2 1 2 3

**NERVOUS SYSTEM**

Brain +  
 Spinal Cord +

**RESPIRATORY SYSTEM**

Lung Inflammation, Chronic Active Alveolar Epithelium, Hyperplasia Alveolus, Hyperplasia Alveolus, Infiltration Cellular, Histiocyte +  
 1  
 2 1  
 1

Nose +

\* .. 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



Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>500 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|  | 0727        | 0601  | 0507  | 0701  | 0702  | 0702  | 0508  | 0603  | 0704  | 0603  | 0508  | 0503  | 0606  | 0506  | 0601  | 0505  | 0604  | 0409  | 0504  | 0306  |          | 0408  | 0605  | 0501  | 0606  |
| ANIMAL ID                                      | 00639       | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664    | 00664 | 00664 | 00664 | 00664 |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0     | 0     | 0     |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0     | 0     | 0     |
|  | 6           | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6        | 6     | 6     | 6     | 6     |
|  | 3           | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 6        | 6     | 6     | 6     | 6     |
|  | 9           | 0     | 1     | 2     | 3     | 4     | 4     | 5     | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8        | 9     | 0     | 1     | 2     |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Large, Cecum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Large, Colon<br>Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>5 |
| Intestine Large, Rectum                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Small, Duodenum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Small, Ileum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Small, Jejunum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Liver                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Angiectasis                                 |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0   |
| Basophilic Focus                            | X | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X |   | X | X | X | X | X | X | 46      |
| Clear Cell Focus                            | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | 5       |
| Eosinophilic Focus                          | X | X | X |   |   | X |   | X | X |   | X |   | X | X |   |   |   |   | X |   | X | X |   |   | 21      |
| Fatty Change                                |   |   | 1 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   | 5 1.6   |
| Hematopoietic Cell Proliferation            |   |   | 1 |   | 1 |   |   |   |   |   | 1 |   |   | 1 | 1 | 1 |   |   | 1 | 1 | 1 |   |   |   | 14 1.0  |
| Hepatodiaphragmatic Nodule                  |   | X | X |   |   | X |   |   | X |   |   |   | X | X |   |   |   | X |   | X |   | X |   |   | 12      |
| Inflammation, Chronic Active                | 1 | 1 | 1 |   | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   | 1 |   |   | 1 | 1 | 1 |   | 40 1.0  |
| Mixed Cell Focus                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 2       |
| Necrosis                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   | 1 1.0   |
| Bile Duct, Hyperplasia                      |   | 1 | 1 | 1 | 1 | 2 | 1 |   | 1 | 1 |   |   | 1 | 1 |   |   | 1 |   | 1 |   |   | 1 | 1 |   | 28 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



Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>500 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|  | 0727        | 0601  | 0507  | 0701  | 0702  | 0708  | 0508  | 0603  | 0704  | 0603  | 0508  | 0603  | 0506  | 0601  | 0505  | 0606  | 0504  | 0609  | 0504  | 0608  |          | 0409  | 0605  | 0501  | 0600  |
| ANIMAL ID                                      | 00639       | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644    | 00644 | 00644 | 00644 | 00644 |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0     | 0     | 0     |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0     | 0     | 0     |
|  | 6           | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6        | 6     | 6     | 6     | 6     |
|  | 3           | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5        | 6     | 6     | 6     | 6     |
|  | 9           | 0     | 1     | 2     | 3     | 4     | 4     | 5     | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8        | 9     | 0     | 1     | 2     |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Mesentery<br>Fat, Necrosis   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |    |     |     |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 3   | 1.0 |
| Pancreas<br>Atrophy  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 11 | 1.2 |     |
| Salivary Glands  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |     |
| Stomach, Forestomach<br>Inflammation<br>Ulcer<br>Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1  | 2.0 |     |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3  |     |     |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 4  | 1.5 |     |
| Stomach, Glandular   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |     |
| Tongue   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |     |

**CARDIOVASCULAR SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Blood Vessel            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |
| Heart<br>Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 39 | 1.2 |
|                         | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |   |    |    |     |

**ENDOCRINE SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Adrenal Cortex<br>Degeneration, Cystic<br>Hypertrophy<br>Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |     |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1 | 2   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1 | 1.0 |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2 | 1.0 |

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>500 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
|  | 0727        | 0601  | 0507  | 0701  | 0702  | 0708  | 0508  | 0603  | 0704  | 0603  | 0508  | 0603  | 0506  | 0601  | 0505  | 0606  | 0404  | 0505  | 0306  | 0408  |          | 0605  | 0506  | 0609  | 0406  | 0501  |
| ANIMAL ID                                      | 00639       | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644    | 00644 | 00644 | 00644 | 00644 | 00644 |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|---|
| Zona Fasciculata, Hyperplasia            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1 1.0 |   |
| Adrenal Medulla Hyperplasia              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | +     | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 | 5 1.2 |   |
| Islets, Pancreatic                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | +     | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 |       |   |
| Parathyroid Gland                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | +     | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 49 |       |   |
| Pituitary Gland                          | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | +     | + |
| Pars Distalis, Angiectasis               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1 2.0 |   |
| Pars Distalis, Cyst                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X  | 1     |   |
| Pars Distalis, Hyperplasia               | 3 | 2 | 2 |   |   | 1 |   | 4 |   | 2 | 4 | 2 | 2 |   |   | 1 |   | 1 | 2 | 1 |   | 2 |   |    |       |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 22 | 2.0   |   |
| Pars Distalis, Vacuolization Cytoplasmic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1 1.0 |   |
| Thyroid Gland                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | +     | + |
| Atrophy                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 | 1 4.0 |   |
| C-cell, Hyperplasia                      | 2 |   | 3 |   | 2 | 4 | 2 | 2 |   | 1 |   |   | 2 |   |   |   |   | 1 | 2 |   |   |   | 1 |    |       |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 26 | 1.9   |   |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|---|
| Clitoral Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | +     | + |
|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 49 | 3 2.7 |   |
| Ovary Atrophy              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | +     | + |
|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 | 6 2.8 |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 I .. Insufficient tissue  
 M .. Missing tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>500 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |    |     |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----|-----|
|  | 07          | 06    | 05    | 07    | 07    | 07    | 05    | 06    | 07    | 06    | 05    | 05    | 06    | 05    | 06    | 06    | 05    | 04    | 05    | 03    |          | 04    | 06    | 05    | 06    | 05 | 06  |
| ANIMAL ID                                      | 00639       | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664    | 00664 | 00664 | 00664 | 00664 |    |     |
| Cyst   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 10 | 1.3 |
| Uterus   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50 |     |
| Cervix, Hypertrophy                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  | 2.0 |
| Endometrium, Hyperplasia, Adenomatous          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  | 2.0 |
| Endometrium, Hyperplasia, Cystic               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 12 | 1.6 |
| <b>HEMATOPOIETIC SYSTEM</b>                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |    |     |
| Bone Marrow                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50 |     |
| Angiectasis                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 32 | 1.7 |
| Hyperplasia                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 40 | 2.7 |
| Infiltration Cellular, Histiocyte              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  | 1.0 |
| Lymph Node                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 2  |     |
| Lymph Node, Mandibular                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50 |     |
| Atrophy  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  | 3.0 |
| Infiltration Cellular, Plasma Cell             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  | 3.0 |
| Lymph Node, Mesenteric                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50 |     |
| Atrophy  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 2  | 1.5 |
| Ectasia  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  | 2.0 |
| Spleen   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50 |     |
| Hematopoietic Cell Proliferation               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 29 | 2.1 |
| Pigmentation, Hemosiderin                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 41 | 1.1 |
| Lymphoid Follicle, Atrophy                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  | 2.0 |
| Thymus   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 47 |     |

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Experiment Number: 96014 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
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| FISCHER 344-TACONIC RATS<br>FEMALE<br>500 mg/L | DAY ON TEST |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | * TOTALS |          |          |          |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|  | 07<br>27    | 06<br>01 | 05<br>07 | 04<br>15 | 03<br>22 | 02<br>28 | 01<br>03 | 00<br>05 | 00<br>06 | 00<br>07 | 00<br>08 | 00<br>09 | 00<br>10 | 00<br>11 | 00<br>12 | 00<br>13 | 00<br>14 | 00<br>15 | 00<br>16 | 00<br>17 |          | 00<br>18 | 00<br>19 | 00<br>20 |
| ANIMAL ID                                      | 00639       | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    | 00639    |

Atrophy 3 3 2 3 3 3 3 3 3 3 3 4 3 3 3 3 3 4 3 2 3 3 3 3 44 3.0

**INTEGUMENTARY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Mammary Gland<br>Hyperplasia         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 1.5 |
| Skin<br>Sebaceous Gland, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |

**MUSCULOSKELETAL SYSTEM**

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Bone<br>Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| Osteopetrosis       |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   | 2 | 3 | 1 |   | 3 |   |   |   |   |    | 8 | 2.3 |

**NERVOUS SYSTEM**

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--|
| Brain       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |  |
| Spinal Cord |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |  |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Lung<br>Inflammation, Chronic Active        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 26 | 1.0 |
| Alveolar Epithelium, Hyperplasia            | 1 |   |   |   |   | 1 |   |   |   | 1 |   |   |   |   | 1 |   |   |   |   | 1 | 1 |   |   |    | 8  | 1.1 |
| Alveolus, Hyperplasia                       |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 1 |   |   |   |    | 1  | 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |    | 43 | 1.0 |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>500 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |       |    |     |     |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|----|-----|-----|
|  | 07          | 06    | 05    | 07    | 07    | 07    | 05    | 06    | 07    | 06    | 05    | 06    | 05    | 06    | 05    | 06    | 04    | 05    | 03    | 04    |          | 06    | 05    | 06    | 00    | 06    | 00    | 09 |     |     |
| ANIMAL ID                                      | 00639       | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664    | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 |    |     |     |
| Foreign Body                                   |             |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       | 2  |     |     |
| Inflammation                                   |             |       | 2     |       | 2     |       |       | 1     |       | 1     |       | 1     |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1     | 9  | 1.2 |     |
| Respiratory Epithelium, Hyperplasia            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       | 1  | 2.0 |     |
| Trachea  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 50 |     |     |
| <b>SPECIAL SENSES SYSTEM</b>                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |    |     |     |
| Eye  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 50 |     |     |
| Fibrosis                                       |             | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       | 1  | 2.0 |     |
| Anterior Chamber, Inflammation                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       | 1  | 3.0 |     |
| Lens, Cataract                                 |             | 3     |       | 1     |       |       |       |       | 1     |       |       |       |       | 4     | 3     |       |       |       |       |       |          |       |       |       |       |       |       | 6  | 2.3 |     |
| Retina, Degeneration                           |             | 4     |       | 1     |       |       |       |       |       |       |       |       |       | 4     | 3     |       |       |       |       |       |          |       |       |       |       |       |       | 5  | 2.6 |     |
| Retina, Gliosis                                | 1           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       | 1  | 1.0 |     |
| Harderian Gland                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 50 |     |     |
| Inflammation                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       | 1  | 4.0 |     |
| <b>URINARY SYSTEM</b>                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |    |     |     |
| Kidney   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 50 |     |     |
| Mineralization                                 |             |       | 1     |       | 1     | 1     | 1     | 1     |       | 1     |       |       | 1     | 1     |       |       | 1     | 1     |       |       |          |       |       |       |       |       |       | 20 | 1.0 |     |
| Nephropathy                                    | 1           | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 2     | 2     | 1     | 1     |          |       |       |       | 1     | 1     |       | 44 | 1.1 |     |
| Cortex, Cyst                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |    | 1   | 1.0 |
| Pelvis, Calculus Micro Observation Only        |             |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | X     |       | 4  |     |     |
| Pelvis, Inflammation                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |          |       |       |       |       |       |       | 1  | 2.0 |     |
| Renal Tubule, Hyperplasia, Atypical            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       | 1  | 2.0 |     |
| Urinary Bladder                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 50 |     |     |

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>1000 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |                       |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>2<br>4<br>7      | 0<br>5<br>1<br>9      | 0<br>6<br>4<br>3      | 0<br>6<br>2<br>0      | 0<br>6<br>4<br>1      | 0<br>6<br>5<br>6      | 0<br>6<br>3<br>8      | 0<br>5<br>0<br>9      | 0<br>6<br>6<br>3      | 0<br>6<br>0<br>1      | 0<br>4<br>1<br>1      | 0<br>5<br>4<br>4      | 0<br>5<br>7<br>2      | 0<br>5<br>4<br>4      | 0<br>5<br>8<br>5      | 0<br>6<br>2<br>8      | 0<br>4<br>9<br>4      | 0<br>4<br>1<br>4      | 0<br>7<br>2<br>7      | 0<br>5<br>2<br>9      |                       |                       | 0<br>6<br>3<br>5      | 0<br>5<br>8<br>6      | 0<br>5<br>6<br>8      |
|   | 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>3 | 0<br>0<br>7<br>0<br>4 | 0<br>0<br>7<br>0<br>5 | 0<br>0<br>7<br>0<br>6 | 0<br>0<br>7<br>0<br>7 | 0<br>0<br>7<br>0<br>8 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>0<br>0 | 0<br>0<br>7<br>1<br>6 | 0<br>0<br>7<br>1<br>7 | 0<br>0<br>7<br>1<br>8 | 0<br>0<br>7<br>1<br>9 | 0<br>0<br>7<br>2<br>0 | 0<br>0<br>7<br>2<br>1 | 0<br>0<br>7<br>2<br>2 | 0<br>0<br>7<br>2<br>3 | 0<br>0<br>7<br>2<br>4 | 0<br>0<br>7<br>2<br>5 | 0<br>0<br>7<br>2<br>6 | 0<br>0<br>7<br>2<br>7 | 0<br>0<br>7<br>2<br>8 | 0<br>0<br>7<br>2<br>9 | 0<br>0<br>7<br>3<br>0 |

**ALIMENTARY SYSTEM**

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

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

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>1000 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>2<br>4<br>7      | 0<br>5<br>1<br>9      | 0<br>6<br>4<br>3      | 0<br>6<br>2<br>0      | 0<br>6<br>4<br>1      | 0<br>6<br>5<br>6      | 0<br>6<br>3<br>8      | 0<br>5<br>0<br>9      | 0<br>6<br>6<br>3      | 0<br>6<br>0<br>1      | 0<br>4<br>1<br>1      | 0<br>5<br>4<br>4      | 0<br>5<br>7<br>2      | 0<br>5<br>4<br>4      | 0<br>5<br>8<br>5      | 0<br>6<br>2<br>8      | 0<br>4<br>9<br>4      | 0<br>4<br>1<br>4      | 0<br>7<br>2<br>7      | 0<br>5<br>2<br>9      | 0<br>6<br>3<br>5      | 0<br>5<br>8<br>6      | 0<br>5<br>6<br>8      | 0<br>6<br>2<br>0      |                       |                      |
|   | 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>3 | 0<br>0<br>7<br>0<br>4 | 0<br>0<br>7<br>0<br>5 | 0<br>0<br>7<br>0<br>6 | 0<br>0<br>7<br>0<br>7 | 0<br>0<br>7<br>0<br>8 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>0<br>0 | 0<br>0<br>7<br>1<br>6 | 0<br>0<br>7<br>1<br>7 | 0<br>0<br>7<br>1<br>8 | 0<br>0<br>7<br>1<br>9 | 0<br>0<br>7<br>2<br>0 | 0<br>0<br>7<br>2<br>1 | 0<br>0<br>7<br>2<br>2 | 0<br>0<br>7<br>2<br>3 | 0<br>0<br>7<br>2<br>4 | 0<br>0<br>7<br>2<br>5 | 0<br>0<br>7<br>2<br>6 | 0<br>0<br>7<br>2<br>7 | 0<br>0<br>7<br>2<br>8 | 0<br>0<br>7<br>2<br>9 | 0<br>0<br>7<br>3<br>0 |                      |

Serosa, Fibrosis

1

Mesentery  
Fat, Necrosis

+ +  
1 1

Oral Mucosa

+

Pancreas  
Atrophy

+  
1 1 2 1

Salivary Glands

+ +

Stomach, Forestomach  
Epithelium, Dysplasia

+  
1

Stomach, Glandular  
Erosion

+ +

Tongue

+ +

**CARDIOVASCULAR SYSTEM**

Blood Vessel

+ +

Heart  
Cardiomyopathy  
Epicardium, Inflammation

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

**ENDOCRINE SYSTEM**

Adrenal Cortex

+ +

\* .. Total animals 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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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
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| FISCHER 344-TACONIC RATS<br>FEMALE<br>1000 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>2<br>4<br>7      | 0<br>5<br>1<br>9      | 0<br>6<br>4<br>3      | 0<br>6<br>2<br>0      | 0<br>6<br>4<br>1      | 0<br>6<br>5<br>6      | 0<br>6<br>3<br>8      | 0<br>5<br>0<br>9      | 0<br>6<br>6<br>3      | 0<br>6<br>0<br>1      | 0<br>4<br>1<br>4      | 0<br>5<br>5<br>4      | 0<br>5<br>7<br>4      | 0<br>5<br>4<br>8      | 0<br>6<br>2<br>5      | 0<br>4<br>9<br>4      | 0<br>4<br>1<br>4      | 0<br>7<br>2<br>7      | 0<br>5<br>2<br>9      | 0<br>6<br>3<br>5      | 0<br>5<br>8<br>6      | 0<br>5<br>6<br>8      | 0<br>5<br>2<br>8      |                       |                       |                      |
|   | 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>3 | 0<br>0<br>7<br>0<br>4 | 0<br>0<br>7<br>0<br>5 | 0<br>0<br>7<br>0<br>6 | 0<br>0<br>7<br>0<br>7 | 0<br>0<br>7<br>0<br>8 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>0<br>0 | 0<br>0<br>7<br>0<br>6 | 0<br>0<br>7<br>0<br>7 | 0<br>0<br>7<br>0<br>8 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>0<br>0 | 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>3 | 0<br>0<br>7<br>0<br>4 | 0<br>0<br>7<br>0<br>5 | 0<br>0<br>7<br>0<br>6 | 0<br>0<br>7<br>0<br>7 | 0<br>0<br>7<br>0<br>8 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>0<br>0 |                      |

Degeneration, Cystic  
 Hypertrophy  
 Necrosis  
 Zona Fasciculata, Hyperplasia

Adrenal Medulla  
 Hyperplasia

Islets, Pancreatic

Parathyroid Gland

Pituitary Gland  
 Pars Distalis, Angiectasis  
 Pars Distalis, Hyperplasia

Thyroid Gland  
 C-cell, Hyperplasia  
 Follicular Cell, Hyperplasia

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland

Ovary  
 Atrophy

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

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



Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>1000 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>2<br>4<br>7      | 0<br>5<br>1<br>9      | 0<br>6<br>4<br>3      | 0<br>6<br>2<br>0      | 0<br>6<br>4<br>1      | 0<br>6<br>5<br>6      | 0<br>6<br>3<br>8      | 0<br>5<br>0<br>9      | 0<br>6<br>6<br>3      | 0<br>6<br>0<br>1      | 0<br>4<br>1<br>1      | 0<br>5<br>4<br>4      | 0<br>5<br>7<br>2      | 0<br>5<br>4<br>4      | 0<br>5<br>8<br>5      | 0<br>6<br>2<br>8      | 0<br>4<br>9<br>4      | 0<br>4<br>1<br>4      | 0<br>7<br>2<br>7      | 0<br>5<br>2<br>9      | 0<br>6<br>3<br>5      | 0<br>5<br>8<br>6      | 0<br>5<br>6<br>8      | 0<br>6<br>2<br>0      |                       |                      |
|   | 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>3 | 0<br>0<br>7<br>0<br>4 | 0<br>0<br>7<br>0<br>5 | 0<br>0<br>7<br>0<br>6 | 0<br>0<br>7<br>0<br>7 | 0<br>0<br>7<br>0<br>8 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>0<br>0 | 0<br>0<br>7<br>0<br>6 | 0<br>0<br>7<br>0<br>7 | 0<br>0<br>7<br>0<br>8 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>0<br>0 | 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>3 | 0<br>0<br>7<br>0<br>4 | 0<br>0<br>7<br>0<br>5 | 0<br>0<br>7<br>0<br>6 | 0<br>0<br>7<br>0<br>7 | 0<br>0<br>7<br>0<br>8 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>0<br>0 |                      |

|                                  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|
| Cyst                             | 2 1 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |   |   |
| Uterus                           | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |
| Cervix, Inflammation             |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |
| Cervix, Metaplasia, Squamous     |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |   |   |
| Endometrium, Hyperplasia, Cystic | 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 | 1 | 1 |

**HEMATOPOIETIC SYSTEM**

|   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow                                     | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Angiectasis                                     | 1 2 1 2 1 1 2 3 2 4 2 2 1 1 2 1 2 2 2 2             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Atrophy   | 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hyperplasia                                     | 3 3 3 3 2 3 3 2 3 2 3 2 2 2 4 4 4 2 1 4 2 2         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration Cellular, Histiocyte               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Myelofibrosis                                   | 1   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Necrosis  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lymph Node                                      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mediastinal, Infiltration Cellular, Plasma Cell |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lymph Node, Mandibular                          | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lymph Node, Mesenteric                          | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Infiltration Cellular, Histiocyte               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spleen  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hematopoietic Cell Proliferation                | 1 3 2 3 2 3 1 2 2 2 2 1 2 3 2 2 2 1 1 2 1           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pigmentation, Hemosiderin                       | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Thrombosis                                      | 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lymphoid Follicle, Atrophy                      | 2 1 2   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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 CAS Number: 71133-14-7

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 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>1000 mg/L | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>2<br>4<br>7      | 0<br>5<br>1<br>9      | 0<br>6<br>4<br>3      | 0<br>6<br>2<br>0      | 0<br>6<br>4<br>1      | 0<br>6<br>5<br>6      | 0<br>6<br>3<br>8      | 0<br>5<br>0<br>9      | 0<br>6<br>6<br>3      | 0<br>6<br>0<br>1      | 0<br>4<br>1<br>1      | 0<br>5<br>4<br>4      | 0<br>5<br>5<br>2      | 0<br>5<br>7<br>4      | 0<br>4<br>8<br>5      | 0<br>6<br>2<br>8      | 0<br>4<br>9<br>4      | 0<br>4<br>1<br>4      | 0<br>7<br>2<br>7      | 0<br>5<br>2<br>9      | 0<br>6<br>3<br>5      | 0<br>5<br>8<br>6      | 0<br>5<br>6<br>8      | 0<br>6<br>2<br>0      |                       |                      |
|   | 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>3 | 0<br>0<br>7<br>0<br>4 | 0<br>0<br>7<br>0<br>5 | 0<br>0<br>7<br>0<br>6 | 0<br>0<br>7<br>0<br>7 | 0<br>0<br>7<br>0<br>8 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>0<br>0 | 0<br>0<br>7<br>1<br>6 | 0<br>0<br>7<br>1<br>7 | 0<br>0<br>7<br>1<br>8 | 0<br>0<br>7<br>1<br>9 | 0<br>0<br>7<br>2<br>0 | 0<br>0<br>7<br>2<br>1 | 0<br>0<br>7<br>2<br>2 | 0<br>0<br>7<br>2<br>3 | 0<br>0<br>7<br>2<br>4 | 0<br>0<br>7<br>2<br>5 | 0<br>0<br>7<br>2<br>6 | 0<br>0<br>7<br>2<br>7 | 0<br>0<br>7<br>2<br>8 | 0<br>0<br>7<br>2<br>9 | 0<br>0<br>7<br>3<br>0 |                      |

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 2 |   |   |   |   |   | 3 | 2 |   |   |
| Trachea      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Cornea, Inflammation |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |
| Lens, Cataract       |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   | 3 |   |   |   |
| Retina, Degeneration |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   | 4 |   |   |   |
| Harderian Gland      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Inflammation         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |
| Zymbal's Gland       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

**URINARY SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Infarct                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mineralization           | 1 | 1 |   |   | 1 | 1 |   |   | 1 | 1 |   |   | 1 | 1 | 1 | 1 |   | 1 | 1 |   |   |   |   | 1 |   |
| Nephropathy              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Papilla, Necrosis        | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Dilatation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Necrosis   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. 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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| FISCHER 344-TACONIC RATS<br>FEMALE<br>1000 mg/L     | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |                            |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|----------------------------|
|   | 0628        | 0594  | 0635  | 0623  | 0652  | 0721  | 0561  | 0623  | 0594  | 0656  | 0661  | 0661  | 0567  | 0575  | 0628  | 0488  | 0566  | 0656  | 0559  | 0666  |          | 0666  | 0665  | 0651                       |
| ANIMAL ID   | 00736       | 00773 | 00773 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777    | 00777 | 00777 |                            |
| Serosa, Fibrosis                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | 1 1.0                      |
| Mesentery<br>Fat, Necrosis                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | 2<br>2 1.0                 |
| Oral Mucosa   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | 1                          |
| Pancreas<br>Atrophy                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50<br>14 1.1               |
| Salivary Glands                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50                         |
| Stomach, Forestomach<br>Epithelium, Dysplasia       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50<br>1 1.0                |
| Stomach, Glandular<br>Erosion                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50<br>2<br>1 2.0           |
| Tongue  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50                         |
| <b>CARDIOVASCULAR SYSTEM</b>                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |                            |
| Blood Vessel  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50                         |
| Heart<br>Cardiomyopathy<br>Epicardium, Inflammation | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50<br>35 1.1<br>2<br>1 2.0 |
| <b>ENDOCRINE SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |                            |
| Adrenal Cortex                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50                         |

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

Experiment Number: 96014 - 05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
 Time Report Requested: 08:02:51  
 First Dose M/F: 10/26/06 / 10/27/06  
 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>1000 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|
|   | 0628        | 0594  | 0635  | 0623  | 0656  | 0721  | 0511  | 0623  | 0544  | 0666  | 0561  | 0661  | 0577  | 0751  | 0521  | 0623  | 0488  | 0593  | 0661  | 0559  | 0664  | 0630  | 0664  | 0561   |          |
| ANIMAL ID                                       | 00736       | 00773 | 00778 | 00773 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777  |          |
| Degeneration, Cystic Hypertrophy                |             |       |       |       |       |       |       |       | 1     |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |        | 6 1.0    |
| Necrosis  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     | 1     |        | 5 1.4    |
| Zona Fasciculata, Hyperplasia                   |             |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        | 2 1.5    |
| Adrenal Medulla Hyperplasia                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50     | 1 1.0    |
| Islets, Pancreatic                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50     |          |
| Parathyroid Gland                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49     |          |
| Pituitary Gland                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50     |          |
| Pars Distalis, Angiectasis                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       | 1 1.0  |          |
| Pars Distalis, Hyperplasia                      |             |       |       |       |       |       |       | 1     |       | 1     |       |       |       | 2     |       |       |       |       | 2     |       | 1     |       | 2     | 17 1.8 |          |
| Thyroid Gland                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50     |          |
| C-cell, Hyperplasia                             |             |       |       | 4     | 4     | 1     | 1     | 1     | 1     | 4     | 1     |       |       | 2     |       | 1     |       |       | 1     |       | 1     |       | 2     | 26 1.7 |          |
| Follicular Cell, Hyperplasia                    |             |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       | 1 2.0  |          |
| <b>GENERAL BODY SYSTEM</b>                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |          |
| NONE  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |          |
| <b>GENITAL SYSTEM</b>                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |          |
| Clitoral Gland                                  | +           | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +      | 48       |
| Ovary   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50     |          |
| Atrophy   |             |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       | 3     | 3 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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Experiment Number: 96014 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Water disinfection byproducts (Bromodichloroacetic acid)  
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013  
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 Lab: BAT

| FISCHER 344-TACONIC RATS<br>FEMALE<br>1000 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |     |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-----|
|   | 0628        | 0594  | 0635  | 0623  | 0665  | 0722  | 0561  | 0623  | 0594  | 0665  | 0623  | 0561  | 0623  | 0594  | 0665  | 0623  | 0561  | 0623  | 0594  | 0665  | 0623  | 0561  | 0623  | 0594  |          |       |     |
| ANIMAL ID                                       | 00736       | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750 | 00751 | 00752 | 00753 | 00754 | 00755 | 00756 | 00757 | 00758 | 00759 |          |       |     |
| Cyst  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        | 6 1.3 |     |
| Uterus  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |       |     |
| Cervix, Inflammation                            |             |       |       | 4     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 4.0 |     |
| Cervix, Metaplasia, Squamous                    |             |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 2.0 |     |
| Endometrium, Hyperplasia, Cystic                |             |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       | 3     |       |       |       | 1     |       | 1     | 1     |       |          | 9 1.4 |     |
| <b>HEMATOPOIETIC SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |     |
| Bone Marrow                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |       |     |
| Angiectasis                                     | 2           | 1     |       | 2     | 2     | 1     |       | 2     | 2     |       | 2     |       | 2     | 2     | 1     | 3     | 1     |       | 1     | 1     | 2     | 2     | 2     | 1     | 2        | 39    | 1.7 |
| Atrophy   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1     | 2.0 |
| Hyperplasia                                     | 3           | 3     | 2     | 3     | 3     | 2     | 3     | 3     | 2     | 3     | 1     |       | 3     | 2     |       | 2     | 2     | 3     | 3     | 3     | 3     | 3     | 2     | 4     | 3        | 43    | 2.7 |
| Infiltration Cellular, Histiocyte               |             |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1     | 1.0 |
| Myelofibrosis                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1     | 1.0 |
| Necrosis  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |          | 1     | 2.0 |
| Lymph Node                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2     |     |
| Mediastinal, Infiltration Cellular, Plasma Cell |             |       |       |       |       |       |       |       |       |       |       |       | +     |       |       | +     |       |       |       |       |       |       |       |       |          | 1     | 2.0 |
| Lymph Node, Mandibular                          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50    |     |
| Lymph Node, Mesenteric                          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50    |     |
| Infiltration Cellular, Histiocyte               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        | 1     | 2.0 |
| Spleen  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50    |     |
| Hematopoietic Cell Proliferation                | 2           | 2     | 2     | 2     |       | 1     |       | 2     |       |       |       |       |       | 2     | 1     |       |       |       |       | 2     | 2     | 3     | 3     |       | 3        | 31    | 2.1 |
| Pigmentation, Hemosiderin                       | 1           | 2     | 1     | 1     | 1     | 1     |       | 1     | 1     | 1     | 1     |       | 1     | 1     | 2     | 1     | 1     |       | 1     | 1     | 1     | 1     |       | 1     | 39       | 1.1   |     |
| Thrombosis                                      |             |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2     | 2.0 |
| Lymphoid Follicle, Atrophy                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 3     | 1.7 |

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 + .. Tissue examined microscopically  
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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|------|----|-----|-----|
|   | 0628        | 0594  | 0635  | 0623  | 0652  | 0721  | 0561  | 0623  | 0594  | 0664  | 0661  | 0657  | 0587  | 0652  | 0621  | 0638  | 0488  | 0566  | 0559  | 0662  |          | 0663  | 0664  | 0651  | 0659 |    |     |     |
| ANIMAL ID                                       | 00736       | 00773 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777    | 00777 | 00777 | 00777 |      |    |     |     |
| Thymus Atrophy                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | M     | +     | +     | +     | +        | +     | +     | +     | 48   | 45 | 3.0 |     |
| <b>INTEGUMENTARY SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    |     |     |
| Mammary Gland Hyperplasia                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +    | 50 | 10  | 1.2 |
| Skin Inflammation                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +    | 50 | 2   | 2.0 |
| Epidermis, Hyperkeratosis                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    | 1   | 3.0 |
| Epidermis, Hyperplasia, Squamous                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    | 1   | 1.0 |
| <b>MUSCULOSKELETAL SYSTEM</b>                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    |     |     |
| Bone Osteopetrosis                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +    | 50 | 5   | 2.2 |
| Vertebra, Fracture                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    | 1   |     |
| <b>NERVOUS SYSTEM</b>                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    |     |     |
| Brain   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +    | 50 |     |     |
| <b>RESPIRATORY SYSTEM</b>                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    |     |     |
| Lung Inflammation, Chronic Active               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +    | 50 | 28  | 1.1 |
| Alveolar Epithelium, Hyperplasia                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    | 8   | 1.6 |
| Alveolus, Infiltration Cellular, Histiocyte     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    | 43  | 1.0 |
| Bronchiole, Hyperplasia                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    | 1   | 1.0 |

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Experiment Number: 96014 - 05  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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| FISCHER 344-TACONIC RATS<br>FEMALE<br>1000 mg/L | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |         | * TOTALS |  |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|----------|--|
|   | 0628        | 0629  | 0630  | 0631  | 0601  | 0602  | 0603  | 0604  | 0605  | 0606  | 0607  | 0608  | 0609  | 0610  | 0611  | 0612  | 0613  | 0614  | 0615  | 0616  | 0617  | 0618  | 0619  | 0620    |         |          |  |
| ANIMAL ID                                       | 00736       | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750 | 00751 | 00752 | 00753 | 00754 | 00755 | 00756 | 00757 | 00758 | 00759   | 00760   |          |  |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +       | 50      |          |  |
| Foreign Body                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 1       |          |  |
| Inflammation                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 5 2.0   |          |  |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +       | 50      |          |  |
| <b>SPECIAL SENSES SYSTEM</b>                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |         |          |  |
| Eye   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +       | 50      |          |  |
| Cornea, Inflammation                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 1 2.0   |          |  |
| Lens, Cataract                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 2 3 2.3 |          |  |
| Retina, Degeneration                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 4 3 4.0 |          |  |
| Harderian Gland                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +       | 50      |          |  |
| Inflammation                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 1 4.0   |          |  |
| Zymbal's Gland                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | + 2     |          |  |
| <b>URINARY SYSTEM</b>                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |         |          |  |
| Kidney  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +       | 50      |          |  |
| Infarct   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 1 1.0   |          |  |
| Mineralization                                  | 1           |       |       |       | 1     |       | 1     |       |       |       |       | 1     | 1     | 1     | 1     | 1     |       |       |       | 1     | 1     |       | 1     | 27 1.0  |         |          |  |
| Nephropathy                                     | 1           | 1     | 2     | 1     | 2     | 1     | 2     | 1     |       | 2     | 1     | 3     | 2     | 2     | 2     | 2     | 1     | 1     | 1     | 1     | 1     |       | 1     | 1       | 46 1.4  |          |  |
| Papilla, Necrosis                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         | 1 3.0   |          |  |
| Renal Tubule, Dilatation                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2 1 2.0 |         |          |  |
| Renal Tubule, Necrosis                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 1.0   |         |          |  |
| Urinary Bladder                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +       | 50      |          |  |

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

**Experiment Number:** 96014 - 05  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** RATS/F344/N Tac

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Water disinfection byproducts (Bromodichloroacetic acid)  
**CAS Number:** 71133-14-7

**Date Report Requested:** 03/05/2013  
**Time Report Requested:** 08:02:51  
**First Dose M/F:** 10/26/06 / 10/27/06  
**Lab:** BAT

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

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