

**Experiment Number:** 96017-03  
**Test Type:** 90-DAY  
**Route:** DOSED WATER  
**Species/Strain:** Rat/F 344/N

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

**Test Compound:** Water disinfection byproducts (Dibromoacetic acid)  
**CAS Number:** 631-64-1

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 18:41:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**C Number:** C96017  
**Lock Date:** 10/04/1999  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** NONE

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First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat MALE	0 MG/L	125 MG/L	250 MG/L	500 MG/L	1000 MG/L	2000 MG/L
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Rectum	(9)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(9)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Hepatocyte, Fatty Change		3 [1.0]	6 [1.3]	8 [1.8]	9 [1.0]	8 [1.0]
Hepatocyte, Vacuolization Cytoplasmic	3 [1.0]	5 [1.0]	7 [1.0]	9 [1.3]	9 [1.3]	10 [2.0]
Hepatodiaphragmatic Nodule						2
Mesentery	(1)	(0)	(0)	(0)	(0)	(1)
Accessory Spleen	1					
Fat, Necrosis						1 [2.0]
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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F 344/N Rat MALE	0 MG/L	125 MG/L	250 MG/L	500 MG/L	1000 MG/L	2000 MG/L
Cardiomyopathy	3 [1.3]					1 [1.0]
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(1)	(0)	(0)	(10)
Accessory Adrenal Cortical Nodule	1 [3.0]					
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(10)	(10)	(10)	(10)	(10)	(10)
Pars Distalis, Cyst						1 [2.0]
Pars Distalis, Hypertrophy	1 [1.0]					6 [1.3]
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Coagulating Gland	(0)	(0)	(0)	(0)	(0)	(2)
Epididymis	(10)	(10)	(10)	(10)	(10)	(9)
Hypospermia						9 [3.1]
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic	1 [2.0]					1 [2.0]
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(10)	(10)	(10)	(10)	(10)
Delayed Spermiation, Retained Spermatids				8 [1.6]	8 [2.0]	
Germinal Epith, Atrophy						10 [3.4]
Reduced Spermatogenesis					1 [1.0]	
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)

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Lymph Node	(1)	(0)	(0)	(1)	(0)	(2)
Mediastinal, Hemorrhage	1 [1.0]					1 [2.0]
Mediastinal, Hyperplasia, Lymphoid	1 [3.0]					1 [2.0]
Pancreatic, Hemorrhage						2 [2.0]
Pancreatic, Hyperplasia				1 [1.0]		
Pancreatic, Pigmentation						1 [2.0]
Lymph Node, Mandibular	(1)	(0)	(0)	(0)	(0)	(0)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage	4 [1.3]					5 [1.2]
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(8)	(0)	(0)	(0)	(0)	(9)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Foreign Body						1
Infiltration Cellular, Histiocyte						1 [1.0]
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
None						
<b>URINARY SYSTEM</b>						

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Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Nephropathy	3 [1.0]					1 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

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<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(9)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Hepatocyte, Vacuolization Cytoplasmic			1 [1.0]		3 [1.0]	10 [1.5]
Hepatodiaphragmatic Nodule		1 [1.0]		1 [1.0]	2	
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Atrophy, Focal						1 [1.0]
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)

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Hypertrophy						1 [1.0]
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pars Intermed, Cyst						1 [3.0]
Pars Intermed, Hyperplasia						1 [1.0]
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ultimobranchial Cyst						2 [3.0]
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Cyst						1 [3.0]
Ovary	(10)	(0)	(0)	(0)	(0)	(10)
Cyst	1 [3.0]					1 [3.0]
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
Hydrometra	1 [3.0]					1 [2.0]
Hyperplasia, Cystic	1 [3.0]					1 [3.0]
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(2)	(0)	(0)	(0)	(0)	(1)
Pancreatic, Hemorrhage	2 [1.5]					1 [2.0]
Pancreatic, Pigmentation	1 [2.0]					1 [2.0]
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage	1 [1.0]					1 [1.0]
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation						4 [1.3]

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F 344/N Rat FEMALE	0 MG/L	125 MG/L	250 MG/L	500 MG/L	1000 MG/L	2000 MG/L
Thymus	(10)	(0)	(0)	(0)	(0)	(9)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Hyperplasia						1 [1.0]
Skin	(10)	(0)	(0)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage						1 [1.0]
Infiltration Cellular, Histiocyte						2 [1.0]
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
None						
<b>URINARY SYSTEM</b>						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Nephropathy						1 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)