

Experiment Number: 96014 - 05

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Date Report Requested: 03/05/2013

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 08:02:51

Route: DOSED WATER

CAS Number: 71133-14-7

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

Species/Strain: RATS/F344/N Tac

Lab: BAT

F1_RD_Rev. 1

NTP Study Number:

C96014B

Lock Date:

11/17/2009

Cage Range:

ALL

Date Range:

ALL

Reasons For Removal:

25021 TSAC

25020 NATD

25019 MSAC

Removal Date Range:

ALL

Treatment Groups:

Include ALL

Study Gender:

Both

TDMSE Version:

3.0.1.1_001

PWG Approval Date:

NONE

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Species/Strain: RATS/F344/N Tac

Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
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Disposition Summary

Animals Initially In Study	66	66	66	66
Early Deaths				
Moribund Sacrifice	26	23	20	27
Natural Death	5	6	5	4
Survivors				
Terminal Sacrifice	19	21	25	19
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(49)	(50)
Adenoma			1 (2%)	
Intestine Large, Colon	(50)	(50)	(50)	(50)
Adenoma			1 (2%)	1 (2%)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Adenoma				1 (2%)
Intestine Small, Duodenum	(50)	(50)	(49)	(50)
Intestine Small, Ileum	(50)	(50)	(49)	(50)
Intestine Small, Jejunum	(50)	(50)	(49)	(50)
Liver	(50)	(50)	(50)	(50)
Cholangiocarcinoma			1 (2%)	
Fibrous Histiocytoma	1 (2%)			
Hemangioma				1 (2%)
Hepatocellular Adenoma		1 (2%)	2 (4%)	
Osteosarcoma, Metastatic, Bone				1 (2%)
Mesentery	(7)	(4)	(9)	(10)
Oral Mucosa	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma	1 (2%)			
Squamous Cell Papilloma			2 (4%)	1 (2%)
Pancreas	(50)	(50)	(49)	(50)
Adenoma, Mixed Cell				1 (2%)
Acinus, Adenoma	1 (2%)		2 (4%)	1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)

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

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CAS Number: 71133-14-7

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Species/Strain: RATS/F344/N Tac

Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Papilloma	1 (2%)		1 (2%)	
Stomach, Glandular	(50)	(50)	(50)	(50)
Tongue	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma			1 (2%)	1 (2%)
Squamous Cell Papilloma				1 (2%)
Tooth	(1)	(0)	(0)	(0)

CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)
Atrium, Endocardium, Schwannoma Malignant				1 (2%)

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	2 (4%)		4 (8%)	
Carcinoma		1 (2%)		
Osteosarcoma, Metastatic, Bone				1 (2%)
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	8 (16%)	7 (14%)	8 (16%)	11 (22%)
Pheochromocytoma Malignant		1 (2%)	2 (4%)	1 (2%)
Bilateral, Carcinoma, Metastatic, Thyroid Gland		1 (2%)		
Bilateral, Pheochromocytoma Benign	2 (4%)	1 (2%)	1 (2%)	
Islets, Pancreatic	(50)	(50)	(49)	(50)
Adenoma		3 (6%)	2 (4%)	
Parathyroid Gland	(49)	(48)	(46)	(44)
Pituitary Gland	(50)	(49)	(49)	(48)
Pars Distalis, Adenoma	26 (52%)	29 (59%)	26 (53%)	20 (42%)
Pars Distalis, Carcinoma		1 (2%)		
Thyroid Gland	(50)	(50)	(50)	(50)
Bilateral, C-cell, Adenoma	2 (4%)		1 (2%)	
C-cell, Adenoma	5 (10%)	9 (18%)	8 (16%)	8 (16%)
C-cell, Carcinoma	1 (2%)	1 (2%)		

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Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Follicular Cell, Adenoma	1 (2%)	3 (6%)		2 (4%)
Follicular Cell, Carcinoma				2 (4%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)
Preputial Gland	(50)	(50)	(50)	(49)
Adenoma	2 (4%)	1 (2%)	5 (10%)	
Carcinoma	2 (4%)			1 (2%)
Bilateral, Carcinoma		1 (2%)		
Prostate	(50)	(50)	(50)	(50)
Adenoma	1 (2%)	1 (2%)		
Osteosarcoma		1 (2%)		
Seminal Vesicle	(50)	(50)	(50)	(50)
Testes	(50)	(50)	(50)	(50)
Bilateral, Interstitial Cell, Adenoma	25 (50%)	20 (40%)	19 (38%)	20 (40%)
Interstitial Cell, Adenoma	9 (18%)	11 (22%)	12 (24%)	19 (38%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(5)	(2)	(8)	(7)
Mediastinal, Fibrous Histiocytoma	1 (20%)			
Renal, Hemangiosarcoma			1 (13%)	
Lymph Node, Mandibular	(50)	(50)	(50)	(50)
Lymph Node, Mesenteric	(50)	(50)	(49)	(50)
Spleen	(50)	(50)	(49)	(50)
Hemangiosarcoma			1 (2%)	1 (2%)
Osteosarcoma, Metastatic, Bone				1 (2%)
Thymus	(48)	(47)	(48)	(49)

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Species/Strain: RATS/F344/N Tac

Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Thymoma Benign				2 (4%)

INTEGUMENTARY SYSTEM

Mammary Gland	(49)	(50)	(49)	(49)
Fibroadenoma		2 (4%)	3 (6%)	1 (2%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma			4 (8%)	4 (8%)
Basal Cell Carcinoma				1 (2%)
Keratoacanthoma	7 (14%)	3 (6%)	10 (20%)	12 (24%)
Keratoacanthoma, Multiple				3 (6%)
Squamous Cell Carcinoma		1 (2%)	1 (2%)	
Squamous Cell Papilloma	2 (4%)	1 (2%)		1 (2%)
Pinna, Squamous Cell Papilloma	1 (2%)			
Sebaceous Gland, Adenoma		2 (4%)	2 (4%)	2 (4%)
Subcutaneous Tissue, Fibroma	4 (8%)	5 (10%)	10 (20%)	13 (26%)
Subcutaneous Tissue, Fibroma, Multiple		1 (2%)		2 (4%)
Subcutaneous Tissue, Fibrosarcoma	1 (2%)		2 (4%)	1 (2%)
Subcutaneous Tissue, Fibrosarcoma, Multiple				1 (2%)
Subcutaneous Tissue, Fibrous Histiocytoma	1 (2%)			
Subcutaneous Tissue, Lipoma	1 (2%)		1 (2%)	
Subcutaneous Tissue, Schwannoma Malignant		1 (2%)		

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Osteoma	1 (2%)			1 (2%)
Osteosarcoma				2 (4%)
Tendon, Fibrosarcoma				1 (2%)
Skeletal Muscle	(4)	(0)	(2)	(0)
Fibroma			1 (50%)	
Fibrous Histiocytoma	1 (25%)			

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Lab: BAT

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NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Fibrous Histiocytoma	1 (2%)			
Glioma		1 (2%)	2 (4%)	2 (4%)
Oligodendroglioma Nos			1 (2%)	1 (2%)
Meninges, Granular Cell Tumor Benign	2 (4%)			
Peripheral Nerve	(0)	(2)	(0)	(0)
Spinal Cord	(0)	(2)	(0)	(0)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	3 (6%)	2 (4%)		1 (2%)
Alveolar/Bronchiolar Carcinoma				1 (2%)
Carcinoma, Metastatic, Harderian Gland	1 (2%)		1 (2%)	
Carcinoma, Metastatic, Thyroid Gland		1 (2%)		
Fibrous Histiocytoma	1 (2%)			
Osteosarcoma, Metastatic, Bone				1 (2%)
Squamous Cell Carcinoma	1 (2%)			1 (2%)
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				
Ear	(1)	(0)	(0)	(0)
Neural Crest Tumor	1 (100%)			
Eye	(50)	(50)	(50)	(50)
Iris, Melanoma Malignant				1 (2%)
Harderian Gland	(50)	(50)	(50)	(50)
Adenoma		1 (2%)		
Carcinoma	1 (2%)		1 (2%)	
Zymbal's Gland	(1)	(2)	(0)	(2)
Carcinoma	1 (100%)	2 (100%)		2 (100%)

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Species/Strain: RATS/F344/N Tac

Lab: BAT

Fischer 344-Taconic RATS MALE

0 mg/L

250 mg/L

500 mg/L

1000 mg/L

URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Lipoma	1 (2%)			
Mesenchymal Tumor Malignant			1 (2%)	
Renal Tubule, Adenoma	1 (2%)		1 (2%)	1 (2%)
Urinary Bladder	(50)	(50)	(50)	(50)

SYSTEMIC LESIONS

Multiple Organ	*(50)	*(50)	*(50)	*(50)
Leukemia Mononuclear	15 (30%)	11 (22%)	15 (30%)	11 (22%)
Mesothelioma Malignant	1 (2%)	12 (24%)	18 (36%)	37 (74%)

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

* Number of animals with any tissue examined microscopically

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

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Species/Strain: RATS/F344/N Tac

Lab: BAT

Fischer 344-Taconic RATS MALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	49	48	48	50
Total Primary Neoplasms	139	137	174	199
Total Animals with Benign Neoplasms	46	44	47	49
Total Benign Neoplasms	108	103	127	130
Total Animals with Malignant Neoplasms	24	25	33	46
Total Malignant Neoplasms	30	33	44	66
Total Animals with Metastatic Neoplasms	1	1	1	1
Total Metastatic Neoplasms	1	2	1	4
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant	1	1	3	3
Total Uncertain Neoplasms	1	1	3	3

*** END OF MALE ***

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

b - Primary tumors: all tumors except metastatic tumors

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Lab: BAT

Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
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Disposition Summary

Animals Initially In Study	66	66	66	66
Early Deaths				
Moribund Sacrifice	10	22	42	44
Natural Death	6	2	1	4
Survivors				
Terminal Sacrifice	34	26	7	2
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Adenoma				2 (4%)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Adenoma	1 (2%)		1 (2%)	
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Sarcoma		1 (2%)		
Liver	(50)	(50)	(50)	(50)
Hemangioma	1 (2%)			
Hemangiosarcoma				1 (2%)
Hepatocellular Adenoma			2 (4%)	1 (2%)
Mesentery	(3)	(4)	(3)	(2)
Oral Mucosa	(0)	(0)	(0)	(1)
Pharyngeal, Squamous Cell Papilloma				1 (100%)
Pancreas	(50)	(50)	(50)	(50)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(50)	(50)	(50)	(50)
Tongue	(50)	(50)	(50)	(50)
Squamous Cell Carcinoma			1 (2%)	
Squamous Cell Papilloma		2 (4%)		1 (2%)

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Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
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CARDIOVASCULAR SYSTEM

Blood Vessel	(50)	(50)	(50)	(50)
Heart	(50)	(50)	(50)	(50)
Schwannoma Malignant		1 (2%)		

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma			1 (2%)	
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Pheochromocytoma Benign, Multiple				1 (2%)
Pheochromocytoma Malignant	1 (2%)	1 (2%)		1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma	1 (2%)			
Carcinoma		1 (2%)		
Parathyroid Gland	(47)	(46)	(49)	(49)
Pituitary Gland	(50)	(50)	(49)	(50)
Pars Distalis, Adenoma	23 (46%)	20 (40%)	11 (22%)	11 (22%)
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Adenoma	11 (22%)	10 (20%)	6 (12%)	7 (14%)
C-cell, Carcinoma			1 (2%)	
Follicular Cell, Adenoma			1 (2%)	1 (2%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(49)	(49)	(48)
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Lab: BAT

Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Adenoma	7 (14%)	11 (22%)	8 (16%)	7 (15%)
Carcinoma	1 (2%)			
Bilateral, Adenoma	1 (2%)			
Ovary	(50)	(50)	(50)	(50)
Granulosa Cell Tumor Malignant			1 (2%)	
Hemangiosarcoma			1 (2%)	
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla				1 (2%)
Uterus	(50)	(50)	(50)	(50)
Deciduoma Nos	1 (2%)			
Fibrous Histiocytoma	1 (2%)			
Leiomyosarcoma	1 (2%)			
Polyp Stromal	3 (6%)	6 (12%)	8 (16%)	5 (10%)
Polyp Stromal, Multiple	1 (2%)			
Sarcoma Stromal	1 (2%)			1 (2%)
Cervix, Granular Cell Tumor Nos			1 (2%)	
Cervix, Hemangiosarcoma			1 (2%)	
Endometrium, Adenoma		1 (2%)		
Endometrium, Carcinoma				1 (2%)
Vagina	(1)	(0)	(0)	(0)

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(4)	(4)	(2)	(2)
Lymph Node, Mandibular	(50)	(50)	(50)	(50)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Spleen	(50)	(50)	(50)	(50)
Hemangiosarcoma				1 (2%)
Thymus	(48)	(49)	(47)	(48)
Thymoma Malignant	1 (2%)			

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
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Lab: BAT

Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Adenoma	1 (2%)	2 (4%)	3 (6%)	1 (2%)
Carcinoma		1 (2%)	3 (6%)	8 (16%)
Fibroadenoma	22 (44%)	13 (26%)	10 (20%)	12 (24%)
Fibroadenoma, Multiple	6 (12%)	34 (68%)	37 (74%)	27 (54%)
Skin	(50)	(50)	(50)	(50)
Basal Cell Adenoma				1 (2%)
Subcutaneous Tissue, Fibroma	2 (4%)		3 (6%)	2 (4%)
Subcutaneous Tissue, Lipoma	2 (4%)			

MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(0)	(1)	(0)	(0)
Rhabdomyosarcoma		1 (100%)		

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Glioma	1 (2%)		2 (4%)	
Oligodendroglioma Nos			1 (2%)	1 (2%)
Spinal Cord	(0)	(0)	(1)	(0)

RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma		1 (2%)		
Carcinoma, Metastatic, Mammary Gland			1 (2%)	
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla	1 (2%)	1 (2%)		1 (2%)
Nose	(50)	(50)	(50)	(50)
Trachea	(50)	(50)	(50)	(50)

SPECIAL SENSES SYSTEM

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Lab: BAT

Fischer 344-Taconic RATS FEMALE	0 mg/L	250 mg/L	500 mg/L	1000 mg/L
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Lacrimal Gland	(0)	(2)	(0)	(0)
Zymbal's Gland	(0)	(0)	(0)	(2)
Carcinoma				2 (100%)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Urinary Bladder	(50)	(50)	(50)	(50)
SYSTEMIC LESIONS				
Multiple Organ	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma		1 (2%)		
Leukemia Mononuclear	19 (38%)	17 (34%)	8 (16%)	10 (20%)

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* Number of animals with any tissue examined microscopically

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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	47	50	49	48
Total Primary Neoplasms	110	125	113	107
Total Animals with Benign Neoplasms	41	48	48	46
Total Benign Neoplasms	83	101	93	81
Total Animals with Malignant Neoplasms	23	21	13	22
Total Malignant Neoplasms	25	24	16	25
Total Animals with Metastatic Neoplasms	1	2	1	1
Total Metastatic Neoplasms	1	2	1	2
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain- Benign or Malignant	2		4	1
Total Uncertain Neoplasms	2		4	1

*** END OF REPORT ***

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

b - Primary tumors: all tumors except metastatic tumors