

TDMS No. 96019 - 06

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

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

WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)

CAS Number: 5589-96-8

Pathologist: HEATH, J. - Unknown, U.

F1_M3_CORE

Date Report Reqsted: 08/21/2006

Time Report Reqsted: 10:19:09

First Dose M/F: 10/10/01 / 10/10/01

Lab: SRI

C Number: C96019

Lock Date: 07/14/2004

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25021 TSAC

25020 NATD

25019 MSAC

Removal Date Range: ALL

Treatment Groups: Include ALL

Test Type: CHRONIC

WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)

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Species/Strain: MICE/B6C3F1

Pathologist: HEATH, J. - Unknown, U.

Lab: SRI

B6C3F1 MICE MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Disposition Summary				
Animals Initially in Study	66	66	66	66
Early Deaths				
Moribund Sacrifice	6	5	9	15
Natural Death	6	10	11	14
Survivors				
Terminal Sacrifice	38	35	30	21
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(49)	(50)
Intestine Large, Cecum	(49)	(49)	(49)	(49)
Carcinoma	1 (2%)	1 (2%)		2 (4%)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(48)	(47)	(48)	(47)
Adenoma	3 (6%)			1 (2%)
Carcinoma	1 (2%)	2 (4%)		
Intestine Small, Jejunum	(47)	(47)	(46)	(43)
Carcinoma	1 (2%)		1 (2%)	
Liver	(50)	(50)	(50)	(50)
Hemangiosarcoma	2 (4%)	1 (2%)	3 (6%)	3 (6%)
Hemangiosarcoma, Multiple			2 (4%)	
Hepatoblastoma	4 (8%)	9 (18%)	16 (32%)	20 (40%)
Hepatoblastoma, Multiple		2 (4%)	12 (24%)	14 (28%)
Hepatocellular Adenoma	14 (28%)	13 (26%)	15 (30%)	12 (24%)
Hepatocellular Adenoma, Multiple	13 (26%)	27 (54%)	25 (50%)	19 (38%)
Hepatocellular Carcinoma	10 (20%)	16 (32%)	16 (32%)	13 (26%)
Hepatocellular Carcinoma, Multiple	9 (18%)	9 (18%)	20 (40%)	32 (64%)
Mast Cell Tumor Malignant		1 (2%)		
Mesentery	(15)	(12)	(8)	(8)
Hemangiosarcoma		1 (8%)		
Hepatoblastoma, Metastatic, Liver		1 (8%)	1 (13%)	3 (38%)
Hepatocellular Carcinoma, Metastatic, Liver				1 (13%)
Pancreas	(50)	(50)	(50)	(50)
Hepatoblastoma, Metastatic, Liver		1 (2%)		

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

Test Type: CHRONIC

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B6C3F1 MICE MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(49)	(50)
Hemangioma		1 (2%)		
Squamous Cell Carcinoma	1 (2%)	1 (2%)	1 (2%)	
Squamous Cell Papilloma	2 (4%)	2 (4%)	1 (2%)	2 (4%)
Squamous Cell Papilloma, Multiple		1 (2%)		
Stomach, Glandular	(50)	(50)	(49)	(50)
Squamous Cell Carcinoma, Metastatic, Stomach, Forestomach			1 (2%)	
Tooth	(2)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM				
Blood Vessel	(2)	(2)	(1)	(4)
Heart	(50)	(50)	(50)	(50)
Hemangiosarcoma			1 (2%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma	1 (2%)			
Capsule, Adenoma	7 (14%)		5 (10%)	4 (8%)
Capsule, Adenoma, Multiple	1 (2%)			
Adrenal Medulla	(50)	(50)	(50)	(47)
Islets, Pancreatic	(50)	(50)	(48)	(50)
Adenoma	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Parathyroid Gland	(32)	(40)	(37)	(38)
Pituitary Gland	(50)	(50)	(48)	(49)
Pars Distalis, Adenoma	1 (2%)	1 (2%)		
Pars Intermedia, Adenoma	1 (2%)			
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Carcinoma				1 (2%)
Follicular Cell, Adenoma	2 (4%)		3 (6%)	1 (2%)
Follicular Cell, Adenoma, Multiple	1 (2%)		1 (2%)	
Follicular Cell, Carcinoma				1 (2%)

GENERAL BODY SYSTEM

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B6C3F1 MICE MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Tissue NOS Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	(0)	(0)	(0)	(1) 1 (100%)
GENITAL SYSTEM				
Epididymis	(50)	(50)	(50)	(50)
Preputial Gland	(48)	(50)	(50)	(50)
Prostate	(50)	(50)	(50)	(50)
Seminal Vesicle	(50)	(50)	(50)	(50)
Hepatoblastoma, Metastatic, Liver				1 (2%)
Testes	(50)	(50)	(50)	(50)
Interstitial Cell, Adenoma	1 (2%)			
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(48)	(47)	(48)
Hemangiosarcoma	1 (2%)			1 (2%)
Mast Cell Tumor Malignant		1 (2%)		
Lymph Node	(5)	(6)	(5)	(3)
Lymph Node, Mandibular	(50)	(45)	(41)	(45)
Lymph Node, Mesenteric	(45)	(45)	(44)	(45)
Carcinoma, Metastatic, Intestine Large, Cecum	1 (2%)			
Spleen	(50)	(50)	(50)	(50)
Hemangioma	1 (2%)			
Hemangiosarcoma	1 (2%)		3 (6%)	1 (2%)
Mast Cell Tumor Malignant		1 (2%)		
Thymus	(46)	(40)	(36)	(40)
INTEGUMENTARY SYSTEM				
Skin	(50)	(50)	(50)	(50)
Mast Cell Tumor Benign			1 (2%)	
Mast Cell Tumor Malignant		1 (2%)		
Squamous Cell Papilloma	1 (2%)		1 (2%)	
Subcutaneous Tissue, Fibroma	1 (2%)			
Subcutaneous Tissue, Hemangiosarcoma			1 (2%)	

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Lab: SRI

B6C3F1 MICE MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(2)	(3)	(2)	(6)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (50%)			1 (17%)
Granular Cell Tumor Benign			1 (50%)	1 (17%)
Hemangiosarcoma				1 (17%)
Hepatoblastoma, Metastatic, Liver			1 (50%)	
Hepatocellular Carcinoma, Metastatic, Liver				1 (17%)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Peripheral Nerve	(1)	(2)	(2)	(5)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	3 (6%)	5 (10%)	6 (12%)	3 (6%)
Alveolar/Bronchiolar Adenoma, Multiple	1 (2%)			
Alveolar/Bronchiolar Carcinoma	9 (18%)	10 (20%)	4 (8%)	6 (12%)
Alveolar/Bronchiolar Carcinoma, Multiple	3 (6%)	1 (2%)		5 (10%)
Hemangiosarcoma			1 (2%)	
Hepatoblastoma, Metastatic, Liver		1 (2%)	7 (14%)	8 (16%)
Hepatocellular Carcinoma, Metastatic, Liver	4 (8%)	4 (8%)	10 (20%)	11 (22%)
Nose	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(49)	(50)
Adenoma	5 (10%)	9 (18%)	9 (18%)	7 (14%)
Adenoma, Multiple				1 (2%)
Carcinoma		1 (2%)	1 (2%)	

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B6C3F1 MICE MALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Mast Cell Tumor Malignant		1 (2%)		
Renal Tubule, Adenoma	4 (8%)	2 (4%)	2 (4%)	3 (6%)
Renal Tubule, Carcinoma			1 (2%)	1 (2%)
Urethra	(1)	(0)	(0)	(0)
Urinary Bladder	(50)	(50)	(49)	(50)
Hemangiosarcoma			1 (2%)	
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma		1 (2%)	2 (4%)	
Lymphoma Malignant	2 (4%)	4 (8%)	1 (2%)	2 (4%)

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

* Number of animals with any tissue examined microscopically

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B6C3F1 MICE 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)	47	48	49	50
Total Primary Neoplasms	109	126	158	158
Total Animals with Benign Neoplasms	41	44	42	38
Total Benign Neoplasms	64	62	71	55
Total Animals with Malignant Neoplasms	36	40	46	49
Total Malignant Neoplasms	45	64	87	103
Total Animals with Metastatic Neoplasms	6	6	19	23
Total Metastatic Neoplasms	6	7	20	27
Total Animals with Malignant Neoplasms Uncertain Primary Site				
Total Animals with Neoplasms Uncertain-Benign or Malignant Total Uncertain Neoplasms				

*** 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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B6C3F1 MICE FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Disposition Summary				
Animals Initially in Study	66	66	66	66
Early Deaths				
Moribund Sacrifice	4	3	3	2
Natural Death	10	5	15	8
Survivors				
Natural Death				1
Terminal Sacrifice	36	42	32	39
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Gallbladder	(42)	(49)	(41)	(41)
Intestine Large, Cecum	(48)	(50)	(46)	(47)
Sarcoma, Metastatic, Mesentery			1 (2%)	
Intestine Large, Colon	(50)	(50)	(50)	(49)
Intestine Small, Duodenum	(48)	(45)	(45)	(46)
Adenoma	1 (2%)		1 (2%)	1 (2%)
Sarcoma, Metastatic, Mesentery			1 (2%)	
Intestine Small, Ileum	(47)	(50)	(47)	(46)
Sarcoma, Metastatic, Mesentery			1 (2%)	
Intestine Small, Jejunum	(48)	(48)	(46)	(44)
Carcinoma	1 (2%)			
Liver	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Pancreas	1 (2%)			
Hepatoblastoma		1 (2%)		1 (2%)
Hepatocellular Adenoma	11 (22%)	11 (22%)	10 (20%)	3 (6%)
Hepatocellular Adenoma, Multiple	16 (32%)	37 (74%)	34 (68%)	43 (86%)
Hepatocellular Carcinoma	13 (26%)	15 (30%)	14 (28%)	15 (30%)
Hepatocellular Carcinoma, Multiple	1 (2%)	8 (16%)	12 (24%)	5 (10%)
Sarcoma, Metastatic, Mesentery		1 (2%)	1 (2%)	
Sarcoma, Metastatic, Skin				1 (2%)
Mesentery	(14)	(16)	(15)	(7)
Carcinoma, Metastatic, Pancreas	1 (7%)			
Hemangioma				1 (14%)
Sarcoma	1 (7%)	1 (6%)	2 (13%)	
Sarcoma, Metastatic, Skin				1 (14%)

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B6C3F1 MICE FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Sarcoma, Metastatic, Uncertain Primary Site	1 (7%)		1 (7%)	
Pancreas	(49)	(50)	(49)	(49)
Sarcoma, Metastatic, Mesentery		1 (2%)	1 (2%)	
Sarcoma, Metastatic, Skin				1 (2%)
Acinus, Carcinoma	1 (2%)			
Salivary Glands	(50)	(50)	(48)	(48)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Sarcoma, Metastatic, Mesentery			2 (4%)	
Sarcoma, Metastatic, Uncertain Primary Site			1 (2%)	
Squamous Cell Papilloma		1 (2%)	2 (4%)	3 (6%)
Stomach, Glandular	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Pancreas	1 (2%)			
Sarcoma, Metastatic, Mesentery			1 (2%)	
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Carcinoma, Metastatic, Pancreas	1 (2%)			
Hemangiosarcoma		1 (2%)		
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(49)	(50)
Carcinoma, Metastatic, Thyroid Gland	1 (2%)			
Sarcoma, Metastatic, Skin				1 (2%)
Adrenal Medulla	(50)	(50)	(49)	(48)
Pheochromocytoma Complex	1 (2%)			
Pheochromocytoma Malignant	1 (2%)			
Islets, Pancreatic	(49)	(50)	(48)	(49)
Adenoma	1 (2%)	2 (4%)	4 (8%)	2 (4%)
Adenoma, Multiple		1 (2%)		
Parathyroid Gland	(36)	(47)	(44)	(47)
Pituitary Gland	(48)	(49)	(48)	(49)
Pars Distalis, Adenoma	4 (8%)	3 (6%)	4 (8%)	6 (12%)
Pars Distalis, Carcinoma				1 (2%)
Pars Intermedia, Adenoma		1 (2%)		
Thyroid Gland	(50)	(50)	(49)	(49)

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B6C3F1 MICE FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
C-cell, Adenoma				1 (2%)
C-cell, Carcinoma	1 (2%)			
Follicular Cell, Adenoma	2 (4%)	1 (2%)	3 (6%)	
Follicular Cell, Adenoma, Multiple	1 (2%)			
GENERAL BODY SYSTEM				
Tissue NOS	(1)	(0)	(2)	(0)
Hemangiosarcoma			1 (50%)	
Sarcoma, Metastatic, Uncertain Primary Site	1 (100%)		1 (50%)	
GENITAL SYSTEM				
Clitoral Gland	(43)	(50)	(49)	(46)
Ovary	(47)	(50)	(44)	(48)
Choriocarcinoma				1 (2%)
Cystadenoma	2 (4%)	3 (6%)	1 (2%)	3 (6%)
Granulosa Cell Tumor Benign				1 (2%)
Uterus	(50)	(50)	(50)	(50)
Hemangioma				1 (2%)
Polyp Stromal	2 (4%)			1 (2%)
Sarcoma Stromal			1 (2%)	
Vagina	(1)	(1)	(0)	(0)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Hemangiosarcoma				1 (2%)
Lymph Node	(11)	(11)	(4)	(5)
Sarcoma, Metastatic, Skin		1 (9%)		
Inguinal, Osteosarcoma, Metastatic, Bone				1 (20%)
Mediastinal, Carcinoma, Metastatic, Pancreas	1 (9%)			
Mediastinal, Carcinoma, Metastatic, Thyroid Gland	1 (9%)			
Lymph Node, Mandibular	(49)	(49)	(46)	(42)
Lymph Node, Mesenteric	(50)	(48)	(47)	(47)

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Pathologist: HEATH, J. - Unknown, U.

Lab: SRI

B6C3F1 MICE FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Spleen	(49)	(50)	(50)	(50)
Hemangiosarcoma	1 (2%)		1 (2%)	1 (2%)
Thymus	(49)	(47)	(49)	(48)
Sarcoma, Metastatic, Mesentery			1 (2%)	
Sarcoma, Metastatic, Uncertain Primary Site			1 (2%)	
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Carcinoma	2 (4%)			1 (2%)
Fibroadenoma			1 (2%)	
Skin	(50)	(50)	(50)	(50)
Squamous Cell Papilloma			1 (2%)	
Subcutaneous Tissue, Fibrous	1 (2%)		1 (2%)	
Histiocytoma				
Subcutaneous Tissue, Hemangioma	2 (4%)			1 (2%)
Subcutaneous Tissue, Hemangiosarcoma		1 (2%)	1 (2%)	1 (2%)
Subcutaneous Tissue, Lipoma		1 (2%)		
Subcutaneous Tissue, Sarcoma	1 (2%)	2 (4%)	6 (12%)	3 (6%)
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Osteosarcoma				1 (2%)
Skeletal Muscle	(2)	(2)	(4)	(2)
Carcinoma, Metastatic, Pancreas	1 (50%)			
Hemangiosarcoma		1 (50%)		
Rhabdomyosarcoma				1 (50%)
Sarcoma, Metastatic, Mesentery			2 (50%)	
Sarcoma, Metastatic, Skin			1 (25%)	1 (50%)
Sarcoma, Metastatic, Uncertain Primary Site			1 (25%)	
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Schwannoma Malignant	1 (2%)			

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B6C3F1 MICE FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Peripheral Nerve	(1)	(2)	(1)	(1)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	2 (4%)	1 (2%)	2 (4%)	5 (10%)
Alveolar/Bronchiolar Carcinoma	6 (12%)	2 (4%)	1 (2%)	1 (2%)
Alveolar/Bronchiolar Carcinoma, Multiple				2 (4%)
Carcinoma, Metastatic, Pancreas	1 (2%)			
Carcinoma, Metastatic, Thyroid Gland	1 (2%)			
Choriocarcinoma, Metastatic, Ovary				1 (2%)
Hepatocellular Carcinoma, Metastatic,	1 (2%)	1 (2%)	5 (10%)	2 (4%)
Liver				
Osteosarcoma, Metastatic, Bone				1 (2%)
Sarcoma, Metastatic, Mesentery			1 (2%)	
Sarcoma, Metastatic, Skin		1 (2%)	1 (2%)	
Sarcoma, Metastatic, Uncertain Primary	1 (2%)			
Site				
Nose	(50)	(49)	(50)	(50)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(48)
Carcinoma, Metastatic, Harderian Gland	1 (2%)			
Harderian Gland	(49)	(50)	(50)	(47)
Adenoma		7 (14%)	1 (2%)	7 (15%)
Adenoma, Multiple	1 (2%)			
Carcinoma	2 (4%)	2 (4%)	1 (2%)	
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Urinary Bladder	(50)	(50)	(50)	(50)
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma	1 (2%)		1 (2%)	1 (2%)

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

TDMS No. 96019 - 06

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

Date Report Requested: 08/21/2006

Test Type: CHRONIC

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B6C3F1 MICE FEMALE	0 MG/L	250 MG/L	500 MG/L	1000 MG/L
Leukemia Granulocytic			1 (2%)	
Lymphoma Malignant	18 (36%)	19 (38%)	15 (30%)	7 (14%)

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 (BROMOCHLOROACETIC ACID)

Time Report Requested: 10:19:09

Route: DOSED WATER

CAS Number: 5589-96-8

First Dose M/F: 10/10/01 / 10/10/01

Species/Strain: MICE/B6C3F1

Pathologist: HEATH, J. - Unknown, U.

Lab: SRI

B6C3F1 MICE FEMALE

0 MG/L

250 MG/L

500 MG/L

1000 MG/L

Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	42	49	50	50
Total Primary Neoplasms	98	122	122	122
Total Animals with Benign Neoplasms	32	49	46	47
Total Benign Neoplasms	45	69	64	79
Total Animals with Malignant Neoplasms	37	36	39	33
Total Malignant Neoplasms	53	53	58	43
Total Animals with Metastatic Neoplasms	5	4	10	5
Total Metastatic Neoplasms	15	5	24	10
Total Animals with Malignant Neoplasms Uncertain Primary Site	1		1	
Total Animals with Neoplasms Uncertain-Benign or Malignant Total Uncertain Neoplasms				

*** 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