

Test Type: CHRONIC

CHROMIUM PICOLINATE MONOHYDRATE

Time Report Requested: 08:19:02

Route: DOSED FEED

CAS Number: 27882-76-4

First Dose M/F: 07/29/02 / 07/29/02

Species/Strain: MICE/B6C3F1

Pathologist: HEATH, J. - Blackshear, P. - Unknown, U.

Lab: SRI

B6C3F1 MICE MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	3	3	6	1
Natural Death	1	4	6	4
Survivors				
Natural Death				1
Terminal Sacrifice	46	43	38	44
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(49)	(49)	(50)
Gallbladder	(46)	(49)	(45)	(46)
Intestine Large, Cecum	(50)	(49)	(48)	(49)
Intestine Large, Rectum	(50)	(49)	(50)	(50)
Carcinoma				1 (2%)
Intestine Small, Duodenum	(49)	(47)	(50)	(49)
Adenoma	1 (2%)			2 (4%)
Carcinoma			1 (2%)	1 (2%)
Intestine Small, Ileum	(50)	(49)	(46)	(49)
Carcinoma	1 (2%)			
Intestine Small, Jejunum	(50)	(48)	(48)	(49)
Carcinoma	1 (2%)			
Liver	(50)	(50)	(50)	(50)
Hemangiosarcoma	2 (4%)	1 (2%)	1 (2%)	
Hepatoblastoma		1 (2%)		3 (6%)
Hepatocellular Adenoma	14 (28%)	10 (20%)	9 (18%)	14 (28%)
Hepatocellular Adenoma, Multiple	7 (14%)	12 (24%)	12 (24%)	8 (16%)
Hepatocellular Carcinoma	10 (20%)	11 (22%)	14 (28%)	11 (22%)
Hepatocellular Carcinoma, Multiple	5 (10%)	7 (14%)	6 (12%)	5 (10%)
Mast Cell Tumor Malignant, Metastatic, Bone Marrow			1 (2%)	
Mesentery	(3)	(7)	(2)	(4)
Hemangiosarcoma		1 (14%)		
Hepatocellular Carcinoma, Metastatic, Liver		1 (14%)		

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

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B6C3F1 MICE MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Pancreas	(50)	(49)	(49)	(50)
Hepatoblastoma, Metastatic, Liver				1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Mast Cell Tumor Malignant	1 (2%)			
Squamous Cell Papilloma	2 (4%)	1 (2%)	1 (2%)	
Stomach, Glandular	(50)	(49)	(50)	(50)
Hepatoblastoma, Metastatic, Liver				1 (2%)
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Hepatoblastoma, Metastatic, Liver				1 (2%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(49)	(50)
Capsule, Adenoma		2 (4%)	1 (2%)	1 (2%)
Adrenal Medulla	(49)	(50)	(49)	(49)
Islets, Pancreatic	(50)	(49)	(50)	(50)
Adenoma	1 (2%)		1 (2%)	
Parathyroid Gland	(46)	(48)	(49)	(46)
Pituitary Gland	(48)	(49)	(48)	(49)
Thyroid Gland	(50)	(50)	(50)	(50)
Follicular Cell, Adenoma			1 (2%)	1 (2%)
Follicular Cell, Carcinoma		1 (2%)	1 (2%)	
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Epididymis	(50)	(50)	(50)	(50)
Preputial Gland	(50)	(50)	(50)	(50)
Prostate	(50)	(50)	(50)	(50)
Adenoma	1 (2%)			
Leiomyosarcoma		1 (2%)		

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Lab: SRI

B6C3F1 MICE MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Seminal Vesicle	(50)	(50)	(50)	(50)
Testes	(50)	(50)	(50)	(50)
Interstitial Cell, Adenoma		1 (2%)	1 (2%)	
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Hemangiosarcoma			1 (2%)	1 (2%)
Mast Cell Tumor Malignant			1 (2%)	
Lymph Node	(2)	(2)	(2)	(4)
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site	1 (50%)			
Iliac, Osteosarcoma, Metastatic, Bone		1 (50%)		
Lymph Node, Mandibular	(47)	(46)	(45)	(44)
Mast Cell Tumor Malignant, Metastatic, Uncertain Primary Site	1 (2%)			
Lymph Node, Mesenteric	(46)	(48)	(48)	(48)
Spleen	(50)	(49)	(50)	(50)
Hemangiosarcoma		2 (4%)	3 (6%)	
Mast Cell Tumor Malignant, Metastatic, Bone Marrow			1 (2%)	
Thymus	(41)	(46)	(47)	(43)
INTEGUMENTARY SYSTEM				
Skin	(50)	(50)	(50)	(50)
Subcutaneous Tissue, Fibrosarcoma				1 (2%)
Subcutaneous Tissue, Fibrous Histiocytoma		1 (2%)	1 (2%)	
Subcutaneous Tissue, Fibrous Histiocytoma, Multiple	1 (2%)			
Subcutaneous Tissue, Hemangiosarcoma		1 (2%)		
Subcutaneous Tissue, Schwannoma Malignant			1 (2%)	
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)

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Lab: SRI

B6C3F1 MICE MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Osteosarcoma		1 (2%)		
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Peripheral Nerve	(2)	(2)	(1)	(1)
Spinal Cord	(2)	(2)	(1)	(1)
Meningioma Malignant	1 (50%)			
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma	11 (22%)	9 (18%)	7 (14%)	5 (10%)
Alveolar/Bronchiolar Adenoma, Multiple	2 (4%)	1 (2%)		3 (6%)
Alveolar/Bronchiolar Carcinoma	2 (4%)	2 (4%)	5 (10%)	7 (14%)
Alveolar/Bronchiolar Carcinoma, Multiple	1 (2%)			1 (2%)
Carcinoma, Metastatic, Thyroid Gland		1 (2%)		
Hepatoblastoma, Metastatic, Liver				1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver	3 (6%)	3 (6%)	5 (10%)	3 (6%)
Osteosarcoma, Metastatic, Bone		1 (2%)		
Nose	(50)	(50)	(50)	(50)
Mast Cell Tumor Malignant	1 (2%)			
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(50)	(50)
Adenoma	5 (10%)	6 (12%)	6 (12%)	7 (14%)
Carcinoma	1 (2%)	1 (2%)	1 (2%)	2 (4%)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Hepatoblastoma, Metastatic, Liver				1 (2%)
Renal Tubule, Adenoma	2 (4%)			1 (2%)
Renal Tubule, Carcinoma	1 (2%)		1 (2%)	
Urinary Bladder	(50)	(49)	(50)	(50)

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

TDMS No. 99027 - 04

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

Date Report Requested: 09/26/2006

Test Type: CHRONIC

CHROMIUM PICOLINATE MONOHYDRATE

Time Report Requested: 08:19:02

Route: DOSED FEED

CAS Number: 27882-76-4

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Species/Strain: MICE/B6C3F1

Pathologist: HEATH, J. - Blackshear, P. - Unknown, U.

Lab: SRI

B6C3F1 MICE MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
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SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma		1 (2%)	2 (4%)	
Lymphoma Malignant	2 (4%)		4 (8%)	3 (6%)

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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Pathologist: HEATH, J. - Blackshear, P. - Unknown, U.

Lab: SRI

B6C3F1 MICE MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	40	46	41	41
Total Primary Neoplasms	76	74	82	78
Total Animals with Benign Neoplasms	28	31	28	28
Total Benign Neoplasms	46	42	39	42
Total Animals with Malignant Neoplasms	24	28	31	29
Total Malignant Neoplasms	30	32	43	36
Total Animals with Metastatic Neoplasms	4	5	6	4
Total Metastatic Neoplasms	5	7	7	8
Total Animals with Malignant Neoplasms Uncertain Primary Site	1			
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

Test Type: CHRONIC

CHROMIUM PICOLINATE MONOHYDRATE

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Species/Strain: MICE/B6C3F1

Pathologist: HEATH, J. - Blackshear, P. - Unknown, U.

Lab: SRI

B6C3F1 MICE FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	1	2	2	6
Natural Death	4	3	4	5
Survivors				
Terminal Sacrifice	45	44	44	39
Animals Examined Microscopically	50	49	50	50
ALIMENTARY SYSTEM				
Esophagus	(48)	(49)	(50)	(50)
Gallbladder	(48)	(46)	(48)	(49)
Intestine Large, Cecum	(50)	(48)	(50)	(48)
Intestine Large, Colon	(50)	(48)	(50)	(50)
Intestine Large, Rectum	(50)	(47)	(50)	(50)
Intestine Small, Duodenum	(49)	(47)	(49)	(49)
Intestine Small, Jejunum	(48)	(49)	(50)	(48)
Carcinoma	1 (2%)	1 (2%)		
Liver	(50)	(49)	(50)	(50)
Carcinoma, Metastatic, Islets, Pancreatic	1 (2%)			
Hepatocellular Adenoma	1 (2%)	4 (8%)	4 (8%)	5 (10%)
Hepatocellular Carcinoma	3 (6%)	1 (2%)	4 (8%)	4 (8%)
Mesentery	(7)	(5)	(4)	(7)
Sarcoma, Metastatic, Skeletal Muscle		1 (20%)		
Sarcoma Stromal, Metastatic, Uterus				1 (14%)
Schwannoma Malignant, Metastatic, Skin	1 (14%)			
Schwannoma Malignant, Metastatic, Uterus	1 (14%)			
Oral Mucosa	(0)	(1)	(0)	(0)
Squamous Cell Carcinoma		1 (100%)		
Pancreas	(50)	(48)	(50)	(50)
Hemangioma				1 (2%)
Sarcoma Stromal, Metastatic, Uterus				1 (2%)
Salivary Glands	(50)	(48)	(49)	(49)
Stomach, Forestomach	(50)	(48)	(50)	(50)
Sarcoma Stromal, Metastatic, Uterus				1 (2%)

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B6C3F1 MICE FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Squamous Cell Papilloma Stomach, Glandular	(50)	2 (4%) (47)	(50)	1 (2%) (50)
CARDIOVASCULAR SYSTEM				
Heart	(50)	(49)	(50)	(50)
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(49)	(50)	(50)
Adrenal Medulla	(49)	(48)	(49)	(50)
Pheochromocytoma Benign			1 (2%)	
Pheochromocytoma Malignant	1 (2%)			
Islets, Pancreatic	(50)	(49)	(50)	(50)
Carcinoma	2 (4%)			
Parathyroid Gland	(46)	(48)	(45)	(46)
Pituitary Gland	(47)	(48)	(50)	(50)
Pars Distalis, Adenoma	1 (2%)	1 (2%)	2 (4%)	2 (4%)
Pars Intermedia, Adenoma	1 (2%)	1 (2%)		
Thyroid Gland	(50)	(49)	(49)	(50)
Follicular Cell, Adenoma	1 (2%)	1 (2%)		
GENERAL BODY SYSTEM				
Tissue NOS	(1)	(0)	(0)	(1)
Hemangiosarcoma	1 (100%)			
GENITAL SYSTEM				
Clitoral Gland	(44)	(49)	(48)	(49)
Ovary	(48)	(49)	(49)	(49)
Cystadenoma		1 (2%)	1 (2%)	1 (2%)
Granulosa Cell Tumor Benign	2 (4%)			
Granulosa Cell Tumor Malignant	1 (2%)			
Uterus	(50)	(49)	(50)	(50)
Hemangiosarcoma		1 (2%)		
Leiomyoma		1 (2%)		
Leiomyosarcoma	2 (4%)	1 (2%)		

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Lab: SRI

B6C3F1 MICE FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Polyp Stromal Sarcoma	2 (4%)	1 (2%)		1 (2%)
Sarcoma Stromal Schwannoma Malignant	1 (2%)			1 (2%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(49)	(50)	(50)
Sarcoma, Metastatic, Skeletal Muscle				1 (2%)
Lymph Node	(3)	(8)	(4)	(4)
Iliac, Sarcoma, Metastatic, Skeletal Muscle				1 (25%)
Lymph Node, Mandibular Hemangiosarcoma	(50)	(46)	(46)	(48)
Lymph Node, Mesenteric	(50)	(48)	(49)	(48)
Sarcoma Stromal, Metastatic, Uterus				1 (2%)
Spleen	(50)	(49)	(50)	(50)
Hemangiosarcoma	2 (4%)	1 (2%)		1 (2%)
Thymus	(49)	(48)	(46)	(48)
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(49)	(50)	(50)
Adenoma			1 (2%)	
Carcinoma	1 (2%)			
Fibroadenoma			1 (2%)	
Skin	(50)	(49)	(50)	(50)
Epidermis, Basosquamous Tumor Benign			1 (2%)	
Sebaceous Gland, Adenoma	1 (2%)			
Subcutaneous Tissue, Fibrosarcoma	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Subcutaneous Tissue, Fibrous Histiocytoma	1 (2%)			
Subcutaneous Tissue, Hemangiosarcoma				1 (2%)
Subcutaneous Tissue, Schwannoma Malignant	1 (2%)			
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(49)	(50)	(50)

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B6C3F1 MICE FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Osteosarcoma Skeletal Muscle	(2)	(2)	1 (2%) (3)	(2)
Sarcoma		2 (100%)	1 (33%)	1 (50%)
Schwannoma Malignant, Metastatic, Skin	1 (50%)			
NERVOUS SYSTEM				
Brain	(50)	(49)	(50)	(50)
Peripheral Nerve	(2)	(3)	(2)	(0)
RESPIRATORY SYSTEM				
Lung	(50)	(49)	(50)	(50)
Alveolar/Bronchiolar Adenoma	1 (2%)	1 (2%)	2 (4%)	
Alveolar/Bronchiolar Carcinoma	1 (2%)	3 (6%)	1 (2%)	1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)			
Osteosarcoma, Metastatic, Bone			1 (2%)	
Nose	(50)	(49)	(50)	(50)
SPECIAL SENSES SYSTEM				
Eye	(50)	(48)	(50)	(50)
Harderian Gland	(50)	(48)	(50)	(50)
Adenoma	7 (14%)	5 (10%)	4 (8%)	6 (12%)
Adenoma, Multiple		1 (2%)		
Carcinoma	2 (4%)	1 (2%)	1 (2%)	1 (2%)
Zymbal's Gland	(0)	(0)	(1)	(0)
Carcinoma			1 (100%)	
URINARY SYSTEM				
Kidney	(50)	(49)	(50)	(50)
Urinary Bladder	(49)	(49)	(50)	(50)
SYSTEMIC LESIONS				

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Lab: SRI

B6C3F1 MICE FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Multiple Organs	* (50)	* (49)	* (50)	* (50)
Histiocytic Sarcoma	1 (2%)	2 (4%)	3 (6%)	1 (2%)
Lymphoma Malignant	5 (10%)	9 (18%)	5 (10%)	4 (8%)

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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)	31	30	26	23
Total Primary Neoplasms	44	44	35	33
Total Animals with Benign Neoplasms	16	14	14	14
Total Benign Neoplasms	17	18	17	17
Total Animals with Malignant Neoplasms	22	22	17	13
Total Malignant Neoplasms	27	26	18	16
Total Animals with Metastatic Neoplasms	4	1	1	2
Total Metastatic Neoplasms	5	1	1	6
Total Animals with Malignant Neoplasms Uncertain Primary Site				
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