

Test Type: CHRONIC

5-(HYDROXYMETHYL)-2-FURFURAL

Time Report Requested: 09:06:29

Route: GAVAGE

CAS Number: 67-47-0

First Dose M/F: 08/09/01 / 08/08/01

Species/Strain: MICE/B6C3F1

Pathologist: TOFT, J. - Blackshear, P.

Lab: BAT

B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Dosing Accident				2
Moribund Sacrifice	6	9	4	1
Natural Death	4	6	3	31
Survivors				
Natural Death				1
Terminal Sacrifice	40	35	43	14
Animals Examined Microscopically	50	50	50	49

ALIMENTARY SYSTEM

Gallbladder	(49)	(50)	(49)	(49)
Intestine Large, Cecum	(50)	(50)	(50)	(49)
Carcinoma	1 (2%)			
Intestine Large, Colon	(50)	(50)	(50)	(49)
Leiomyosarcoma		1 (2%)		
Intestine Small, Duodenum	(50)	(50)	(50)	(49)
Carcinoma	2 (4%)			
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (2%)		
Intestine Small, Ileum	(49)	(50)	(50)	(49)
Intestine Small, Jejunum	(50)	(50)	(50)	(49)
Liver	(50)	(50)	(50)	(49)
Hemangioma			1 (2%)	
Hemangiosarcoma	1 (2%)		1 (2%)	
Hemangiosarcoma, Multiple			1 (2%)	
Hepatoblastoma	1 (2%)	4 (8%)	7 (14%)	
Hepatocellular Adenoma	14 (28%)	10 (20%)	5 (10%)	6 (12%)
Hepatocellular Adenoma, Multiple	19 (38%)	20 (40%)	36 (72%)	4 (8%)
Hepatocellular Carcinoma	5 (10%)	11 (22%)	11 (22%)	5 (10%)
Hepatocellular Carcinoma, Multiple	6 (12%)	3 (6%)	3 (6%)	1 (2%)
Hepatocholangiocarcinoma		1 (2%)	1 (2%)	1 (2%)
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (2%)		
Mesentery	(4)	(4)	(4)	(2)

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

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B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (25%)		
Pancreas	(50)	(50)	(50)	(49)
Salivary Glands	(50)	(50)	(50)	(49)
Stomach, Forestomach	(50)	(50)	(50)	(49)
Squamous Cell Papilloma	2 (4%)		1 (2%)	1 (2%)
Stomach, Glandular	(50)	(50)	(50)	(49)
Tooth	(12)	(7)	(4)	(1)
Odontoma		3 (43%)	2 (50%)	
CARDIOVASCULAR SYSTEM				
Blood Vessel	(3)	(1)	(0)	(1)
Heart	(50)	(49)	(50)	(49)
Hepatocarcinoma, Metastatic, Liver			1 (2%)	
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (2%)		
Liposarcoma, Metastatic, Uncertain Primary Site		1 (2%)		
ENDOCRINE SYSTEM				
Adrenal Cortex	(49)	(50)	(50)	(49)
Adenoma			1 (2%)	
Subcapsular, Adenoma	5 (10%)	3 (6%)	6 (12%)	
Subcapsular, Adenoma, Multiple			2 (4%)	
Adrenal Medulla	(49)	(50)	(50)	(49)
Islets, Pancreatic	(50)	(50)	(50)	(49)
Parathyroid Gland	(41)	(48)	(48)	(37)
Pituitary Gland	(48)	(50)	(50)	(49)
Thyroid Gland	(50)	(50)	(50)	(49)
Follicular Cell, Adenoma	1 (2%)	2 (4%)	3 (6%)	2 (4%)
Follicular Cell, Adenoma, Multiple	1 (2%)			
Follicular Cell, Carcinoma			1 (2%)	
GENERAL BODY SYSTEM				

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B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
None				
GENITAL SYSTEM				
Coagulating Gland	(0)	(2)	(2)	(0)
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (50%)		
Epididymis	(50)	(50)	(50)	(49)
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (2%)		
Preputial Gland	(50)	(50)	(50)	(49)
Prostate	(50)	(50)	(50)	(49)
Seminal Vesicle	(50)	(50)	(50)	(49)
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (2%)		
Testes	(50)	(50)	(50)	(49)
Interstitial Cell, Adenoma		1 (2%)	1 (2%)	1 (2%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(49)
Lymph Node	(4)	(3)	(4)	(0)
Hepatocolangiocarcinoma, Metastatic, Liver			1 (25%)	
Mediastinal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (25%)			
Mediastinal, Hepatocolangiocarcinoma, Metastatic, Liver		1 (33%)	1 (25%)	
Mediastinal, Liposarcoma, Metastatic, Uncertain Primary Site		1 (33%)		
Lymph Node, Mandibular	(49)	(50)	(49)	(48)
Lymph Node, Mesenteric	(50)	(49)	(49)	(49)
Carcinoma, Metastatic, Intestine Large, Cecum	1 (2%)			
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)			
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (2%)		
Spleen	(50)	(50)	(50)	(49)

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B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Hemangiosarcoma	1 (2%)			
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (2%)		
Thymus	(43)	(47)	(47)	(49)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (2%)			
Liposarcoma, Metastatic, Uncertain Primary Site		1 (2%)		
INTEGUMENTARY SYSTEM				
Skin	(50)	(50)	(50)	(49)
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (2%)		
Subcutaneous Tissue, Schwannoma Malignant		1 (2%)		
MUSCULOSKELETAL SYSTEM				
Skeletal Muscle	(1)	(4)	(1)	(1)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (100%)			
Hemangiosarcoma				1 (100%)
Hepatocholangiocarcinoma, Metastatic, Liver		1 (25%)		
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (25%)		
Liposarcoma, Metastatic, Uncertain Primary Site		1 (25%)		
Schwannoma Malignant, Metastatic, Skin		1 (25%)		
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(49)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(49)

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B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Alveolar/Bronchiolar Adenoma	10 (20%)	3 (6%)	10 (20%)	2 (4%)
Alveolar/Bronchiolar Adenoma, Multiple		2 (4%)		1 (2%)
Alveolar/Bronchiolar Carcinoma	7 (14%)	1 (2%)	1 (2%)	
Carcinoma, Metastatic, Harderian Gland	1 (2%)	1 (2%)		
Hepatoblastoma, Metastatic, Liver		1 (2%)		
Hepatocellular Carcinoma, Metastatic, Liver	6 (12%)	4 (8%)	4 (8%)	1 (2%)
Hepatocholangiocarcinoma, Metastatic, Liver		1 (2%)	1 (2%)	
Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (2%)		
Liposarcoma, Metastatic, Uncertain Primary Site		1 (2%)		
Mediastinum, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (2%)			
Mediastinum, Hepatocholangiocarcinoma, Metastatic, Liver			1 (2%)	
Mediastinum, Leiomyosarcoma, Metastatic, Intestine Large, Colon		1 (2%)		
Mediastinum, Liposarcoma, Metastatic, Uncertain Primary Site		1 (2%)		
Serosa, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (2%)			
Nose	(50)	(50)	(50)	(47)
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(49)
Carcinoma, Metastatic, Harderian Gland		1 (2%)		
Harderian Gland	(50)	(50)	(50)	(48)
Adenoma	11 (22%)	5 (10%)	7 (14%)	4 (8%)
Carcinoma	3 (6%)	2 (4%)	1 (2%)	
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(49)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (2%)			
Hepatocholangiocarcinoma, Metastatic,			1 (2%)	

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B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Liver				
Leiomyosarcoma, Metastatic, Intestine		1 (2%)		
Large, Colon				
Renal Tubule, Adenoma	1 (2%)			
Urinary Bladder	(50)	(50)	(50)	(49)
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(49)
Histiocytic Sarcoma			1 (2%)	
Lymphoma Malignant	2 (4%)	1 (2%)	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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B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	49	43	47	20
Total Primary Neoplasms	93	74	106	29
Total Animals with Benign Neoplasms	42	32	44	16
Total Benign Neoplasms	64	49	75	21
Total Animals with Malignant Neoplasms	26	24	23	8
Total Malignant Neoplasms	29	25	31	8
Total Animals with Metastatic Neoplasms	8	10	5	1
Total Metastatic Neoplasms	15	31	10	1
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

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Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	4	5	8	6
Natural Death	7	2	10	22
Survivors				
Terminal Sacrifice	39	42	32	22
Animals Examined Microscopically	50	49	50	50
ALIMENTARY SYSTEM				
Gallbladder	(50)	(48)	(49)	(48)
Intestine Large, Cecum	(50)	(49)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Intestine Large, Colon	(50)	(49)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Intestine Large, Rectum	(50)	(49)	(50)	(50)
Intestine Small, Duodenum	(50)	(49)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Intestine Small, Ileum	(50)	(49)	(50)	(49)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Intestine Small, Jejunum	(50)	(49)	(50)	(50)
Hemangioma		1 (2%)		
Liver	(50)	(49)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Hemangioma		1 (2%)		
Hepatoblastoma	1 (2%)			
Hepatocellular Adenoma	10 (20%)	16 (33%)	19 (38%)	5 (10%)
Hepatocellular Adenoma, Multiple	4 (8%)	10 (20%)	7 (14%)	1 (2%)
Hepatocellular Carcinoma	2 (4%)	1 (2%)	1 (2%)	3 (6%)
Hepatocellular Carcinoma, Multiple			1 (2%)	1 (2%)
Mesentery	(12)	(7)	(6)	(1)
Carcinoma, Metastatic, Uterus		1 (14%)		
Fibrous Histiocytoma, Metastatic, Skin		1 (14%)		
Hemangiosarcoma, Metastatic, Spleen			1 (17%)	
Hepatoblastoma, Metastatic, Liver	1 (8%)			
Pancreas	(49)	(49)	(50)	(50)

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B6C3F1 MICE FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Salivary Glands	(49)	(49)	(49)	(43)
Stomach, Forestomach	(50)	(49)	(50)	(50)
Squamous Cell Papilloma	2 (4%)	1 (2%)		3 (6%)
Stomach, Glandular	(50)	(49)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Tongue	(1)	(0)	(0)	(0)
Squamous Cell Carcinoma	1 (100%)			
CARDIOVASCULAR SYSTEM				
Blood Vessel	(1)	(1)	(3)	(2)
Heart	(50)	(49)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Hemangiosarcoma, Metastatic, Spleen			1 (2%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(49)	(50)	(49)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Adrenal Medulla	(50)	(49)	(50)	(49)
Islets, Pancreatic	(50)	(49)	(50)	(50)
Adenoma		1 (2%)		
Parathyroid Gland	(43)	(41)	(33)	(36)
Pituitary Gland	(49)	(49)	(47)	(44)
Pars Distalis, Adenoma	2 (4%)	5 (10%)	4 (9%)	
Pars Intermedia, Adenoma	2 (4%)			
Thyroid Gland	(48)	(49)	(49)	(47)
Bilateral, Follicular Cell, Adenoma	1 (2%)		1 (2%)	
Follicular Cell, Adenoma		5 (10%)	1 (2%)	
Follicular Cell, Adenoma, Multiple		1 (2%)		
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				

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B6C3F1 MICE FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Clitoral Gland	(50)	(49)	(49)	(47)
Ovary	(50)	(48)	(49)	(48)
Cystadenoma	3 (6%)	4 (8%)	2 (4%)	2 (4%)
Thecoma Malignant		1 (2%)		
Oviduct	(2)	(1)	(2)	(0)
Uterus	(50)	(49)	(50)	(50)
Carcinoma		1 (2%)		
Hemangioma	2 (4%)			
Hemangiosarcoma				1 (2%)
Polyp Stromal	1 (2%)	1 (2%)	3 (6%)	1 (2%)
Sarcoma Stromal			1 (2%)	
HEMATOPOIETIC SYSTEM				
Bone Marrow	(49)	(49)	(50)	(50)
Hemangiosarcoma		2 (4%)		
Hemangiosarcoma, Metastatic, Spleen	1 (2%)		1 (2%)	
Lymph Node	(10)	(7)	(3)	(3)
Mediastinal, Fibrous Histiocytoma, Metastatic, Skin		1 (14%)		
Lymph Node, Mandibular	(49)	(49)	(46)	(43)
Lymph Node, Mesenteric	(49)	(48)	(49)	(49)
Carcinoma, Metastatic, Uterus		1 (2%)		
Fibrous Histiocytoma		1 (2%)		
Hemangiosarcoma	1 (2%)			
Spleen	(49)	(49)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Hemangiosarcoma	4 (8%)	2 (4%)	1 (2%)	
Thymus	(47)	(49)	(50)	(47)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(49)	(50)	(46)
Carcinoma	1 (2%)		1 (2%)	
Skin	(50)	(49)	(50)	(50)
Subcutaneous Tissue, Fibrosarcoma		2 (4%)		
Subcutaneous Tissue, Fibrous Histiocytoma		1 (2%)		

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Subcutaneous Tissue, Hemangiosarcoma		1 (2%)		
Subcutaneous Tissue, Hemangiosarcoma, Metastatic, Spleen	1 (2%)			
Subcutaneous Tissue, Sarcoma Stromal, Metastatic, Uterus			1 (2%)	
Subcutaneous Tissue, Schwannoma Malignant			1 (2%)	
MUSCULOSKELETAL SYSTEM				
Bone	(49)	(49)	(50)	(50)
Vertebra, Osteosarcoma			1 (2%)	
Skeletal Muscle	(4)	(2)	(1)	(2)
Fibrous Histiocytoma, Metastatic, Skin		1 (50%)		
Hemangiosarcoma, Metastatic, Spleen	1 (25%)			
Rhabdomyosarcoma				1 (50%)
NERVOUS SYSTEM				
Brain	(50)	(49)	(50)	(50)
Peripheral Nerve	(1)	(0)	(1)	(0)
Spinal Cord	(1)	(0)	(1)	(0)
RESPIRATORY SYSTEM				
Lung	(50)	(49)	(50)	(50)
Alveolar/Bronchiolar Adenoma	2 (4%)	1 (2%)	2 (4%)	3 (6%)
Alveolar/Bronchiolar Adenoma, Multiple		1 (2%)		
Alveolar/Bronchiolar Carcinoma	1 (2%)	3 (6%)	1 (2%)	
Carcinoma, Metastatic, Mammary Gland	1 (2%)			
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Hemangioma				1 (2%)
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)		1 (2%)	3 (6%)
Mediastinum, Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Nose	(49)	(49)	(50)	(50)

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SPECIAL SENSES SYSTEM				
Eye	(49)	(49)	(50)	(50)
Harderian Gland	(50)	(48)	(50)	(48)
Adenoma	6 (12%)	3 (6%)	9 (18%)	3 (6%)
Bilateral, Adenoma	1 (2%)			
URINARY SYSTEM				
Kidney	(50)	(49)	(50)	(50)
Hemangiosarcoma, Metastatic, Spleen			1 (2%)	
Urinary Bladder	(50)	(49)	(49)	(50)
Fibrous Histiocytoma, Metastatic, Skin		1 (2%)		
Sarcoma Stromal, Metastatic, Uterus			1 (2%)	
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(49)	*(50)	*(50)
Histiocytic Sarcoma			1 (2%)	
Lymphoma Malignant	8 (16%)	6 (12%)	5 (10%)	2 (4%)

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* Number of animals with any tissue examined microscopically

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B6C3F1 MICE FEMALE

0 MG/KG

188 MG/KG

375 MG/KG

750 MG/KG

Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	34	39	42	24
Total Primary Neoplasms	55	72	62	27
Total Animals with Benign Neoplasms	26	33	39	17
Total Benign Neoplasms	36	51	48	19
Total Animals with Malignant Neoplasms	16	15	13	8
Total Malignant Neoplasms	19	21	14	8
Total Animals with Metastatic Neoplasms	4	2	4	3
Total Metastatic Neoplasms	6	19	8	3
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