

TDMS No. 95011 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

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

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Unknown, U.

F1_R2

Date Report Reqsted: 09/01/2006

Time Report Reqsted: 08:20:21

First Dose M/F: 03/06/02 / 03/07/02

Lab: BAT

C Number: C95011B
Lock Date: 11/09/2004
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL

Test Type: CHRONIC

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First Dose M/F: 03/06/02 / 03/07/02

Species/Strain: RATS/F 344

Pathologist: TOFT, J. - Unknown, U.

Lab: BAT

FISCHER 344 RATS 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			1	1
Moribund Sacrifice	20	9	9	10
Natural Death	8	7	9	4
Survivors				
Terminal Sacrifice	22	34	31	35
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Adenoma		1 (2%)		
Carcinoma		1 (2%)		
Liposarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Adenoma				1 (2%)
Liposarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Hepatocellular Adenoma			2 (4%)	
Mesentery	(9)	(8)	(7)	(6)
Fibrosarcoma, Metastatic, Spleen			1 (14%)	
Liposarcoma, Metastatic, Uncertain Primary Site				1 (17%)
Neurofibrosarcoma			1 (14%)	1 (17%)
Pancreas	(50)	(50)	(50)	(50)
Fibrosarcoma, Metastatic, Spleen			1 (2%)	
Liposarcoma, Metastatic, Uncertain Primary Site				1 (2%)

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

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Species/Strain: RATS/F 344

Pathologist: TOFT, J. - Unknown, U.

Lab: BAT

FISCHER 344 RATS MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Acinus, Adenoma	1 (2%)			
Salivary Glands	(50)	(50)	(49)	(49)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Squamous Cell Papilloma		1 (2%)		
Stomach, Glandular	(50)	(50)	(50)	(50)
Tongue	(0)	(1)	(0)	(0)
Squamous Cell Papilloma		1 (100%)		
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		2 (4%)		
Schwannoma Malignant			1 (2%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Adenoma		2 (4%)		
Liposarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Adrenal Medulla	(50)	(50)	(50)	(50)
Pheochromocytoma Benign	5 (10%)	6 (12%)	6 (12%)	6 (12%)
Pheochromocytoma Malignant		1 (2%)	1 (2%)	
Bilateral, Pheochromocytoma Benign				1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Adenoma	2 (4%)	2 (4%)	2 (4%)	2 (4%)
Carcinoma	2 (4%)		1 (2%)	
Parathyroid Gland	(49)	(48)	(48)	(48)
Adenoma			1 (2%)	
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	15 (30%)	16 (32%)	15 (30%)	8 (16%)
Pars Distalis, Carcinoma				1 (2%)
Pars Intermedia, Carcinoma		1 (2%)		
Thyroid Gland	(50)	(49)	(48)	(48)
C-cell, Adenoma	1 (2%)	6 (12%)	12 (25%)	4 (8%)
C-cell, Carcinoma		1 (2%)	2 (4%)	2 (4%)
Follicular Cell, Adenoma	1 (2%)			
Follicular Cell, Carcinoma	2 (4%)	1 (2%)		2 (4%)

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FISCHER 344 RATS MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
GENERAL BODY SYSTEM				
Peritoneum	(1)	(0)	(0)	(0)
GENITAL SYSTEM				
Coagulating Gland	(1)	(0)	(0)	(4)
Epididymis	(50)	(50)	(50)	(50)
Liposarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Preputial Gland	(50)	(50)	(50)	(50)
Adenoma	5 (10%)	4 (8%)	1 (2%)	1 (2%)
Carcinoma	1 (2%)	1 (2%)	1 (2%)	
Bilateral, Adenoma		1 (2%)		
Prostate	(50)	(50)	(50)	(50)
Adenoma		1 (2%)	1 (2%)	1 (2%)
Liposarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Seminal Vesicle	(50)	(50)	(50)	(50)
Liposarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Testes	(50)	(50)	(50)	(50)
Bilateral, Interstitial Cell, Adenoma	40 (80%)	35 (70%)	37 (74%)	40 (80%)
Interstitial Cell, Adenoma	8 (16%)	10 (20%)	11 (22%)	7 (14%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(10)	(6)	(4)	(4)
Bronchial, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (17%)		
Mediastinal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (17%)		
Lymph Node, Mesenteric	(50)	(50)	(50)	(49)
Spleen	(50)	(50)	(50)	(50)
Fibroma			1 (2%)	
Leiomyosarcoma	1 (2%)			

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Lab: BAT

FISCHER 344 RATS MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Thymus	(48)	(47)	(49)	(46)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)		
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(49)	(50)	(50)
Fibroadenoma	1 (2%)	1 (2%)	2 (4%)	2 (4%)
Skin	(50)	(49)	(50)	(50)
Basal Cell Adenoma		1 (2%)	1 (2%)	
Basal Cell Adenoma, Multiple	1 (2%)			
Keratoacanthoma	2 (4%)	5 (10%)	3 (6%)	
Liposarcoma, Metastatic, Uncertain Primary Site				1 (2%)
Squamous Cell Carcinoma	1 (2%)	2 (4%)	1 (2%)	
Squamous Cell Papilloma				1 (2%)
Trichoepithelioma			1 (2%)	
Sebaceous Gland, Adenoma		1 (2%)	1 (2%)	
Subcutaneous Tissue, Fibroma	5 (10%)	4 (8%)	1 (2%)	2 (4%)
Subcutaneous Tissue, Fibroma, Multiple		1 (2%)		
Subcutaneous Tissue, Fibrosarcoma	1 (2%)			
Subcutaneous Tissue, Fibrous Histiocytoma		1 (2%)		
Subcutaneous Tissue, Lipoma			1 (2%)	
Subcutaneous Tissue, Schwannoma Malignant	1 (2%)		1 (2%)	
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Chondroma			1 (2%)	
Hemangiosarcoma			1 (2%)	
Osteosarcoma				1 (2%)
Skeletal Muscle	(3)	(1)	(2)	(2)
Hemangiosarcoma			1 (50%)	
Liposarcoma, Metastatic, Uncertain Primary Site				1 (50%)

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Lab: BAT

FISCHER 344 RATS MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Astrocytoma Malignant		1 (2%)	1 (2%)	
Carcinoma, Metastatic, Pituitary Gland		1 (2%)		
Oligodendroglioma Benign			1 (2%)	
Spinal Cord	(1)	(1)	(1)	(0)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma				2 (4%)
Alveolar/Bronchiolar Carcinoma	1 (2%)	1 (2%)		
Alveolar/Bronchiolar Carcinoma, Multiple		1 (2%)		
Osteosarcoma, Metastatic, Bone				1 (2%)
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla		1 (2%)		
Mediastinum, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		2 (4%)		
Mediastinum, Osteosarcoma, Metastatic, Bone				1 (2%)
Nose	(50)	(49)	(48)	(49)
Trachea	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				
Ear	(0)	(0)	(0)	(2)
Pinna, Neural Crest Tumor				1 (50%)
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(49)	(50)	(50)	(50)
Zymbal's Gland	(0)	(0)	(0)	(1)
Carcinoma				1 (100%)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Liposarcoma, Metastatic, Uncertain Primary Site				1 (2%)

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Pathologist: TOFT, J. - Unknown, U.

Lab: BAT

FISCHER 344 RATS MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Renal Tubule, Adenoma				1 (2%)
Renal Tubule, Carcinoma				1 (2%)
Urinary Bladder	(50)	(50)	(50)	(50)
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma				1 (2%)
Leukemia Mononuclear	28 (56%)	27 (54%)	31 (62%)	18 (36%)
Lymphoma Malignant			1 (2%)	
Mesothelioma Benign		1 (2%)		
Mesothelioma Malignant	2 (4%)	2 (4%)	2 (4%)	4 (8%)

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
Route: GAVAGE
Species/Strain: RATS/F 344

FISCHER 344 RATS 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)	50	50	49	49
Total Primary Neoplasms	127	141	147	112
Total Animals with Benign Neoplasms	50	49	49	48
Total Benign Neoplasms	87	99	101	79
Total Animals with Malignant Neoplasms	35	35	36	27
Total Malignant Neoplasms	40	41	46	32
Total Animals with Metastatic Neoplasms		4	1	2
Total Metastatic Neoplasms		9	2	13
Total Animals with Malignant Neoplasms Uncertain Primary Site				1
Total Animals with Neoplasms Uncertain-Benign or Malignant				1
Total Uncertain Neoplasms				1

*** 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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Species/Strain: RATS/F 344

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Lab: BAT

FISCHER 344 RATS 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				
Dosing Accident				2
Moribund Sacrifice	14	7	13	7
Natural Death	5	11	10	11
Survivors				
Natural Death				1
Terminal Sacrifice	31	32	27	29
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Intestine Large, Cecum	(50)	(50)	(50)	(49)
Intestine Large, Colon	(50)	(50)	(50)	(49)
Yolk Sac Carcinoma, Metastatic, Ovary		1 (2%)		
Intestine Large, Rectum	(50)	(49)	(50)	(50)
Adenoma	1 (2%)			
Intestine Small, Ileum	(50)	(50)	(50)	(49)
Intestine Small, Jejunum	(50)	(50)	(50)	(49)
Liver	(50)	(50)	(50)	(49)
Yolk Sac Carcinoma, Metastatic, Ovary		1 (2%)		
Mesentery	(7)	(10)	(9)	(9)
Yolk Sac Carcinoma, Metastatic, Ovary		1 (10%)		
Pancreas	(50)	(50)	(50)	(49)
Salivary Glands	(50)	(49)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(49)
Squamous Cell Carcinoma	1 (2%)			
Squamous Cell Papilloma			1 (2%)	
Stomach, Glandular	(50)	(50)	(50)	(49)
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Schwannoma Malignant	1 (2%)			

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Pathologist: TOFT, J. - Unknown, U.

Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(49)
Adenoma	1 (2%)		1 (2%)	1 (2%)
Adrenal Medulla	(50)	(50)	(50)	(49)
Pheochromocytoma Benign		1 (2%)		1 (2%)
Pheochromocytoma Malignant				1 (2%)
Islets, Pancreatic	(50)	(50)	(50)	(49)
Adenoma		1 (2%)		
Carcinoma				1 (2%)
Pituitary Gland	(50)	(50)	(50)	(50)
Pars Distalis, Adenoma	21 (42%)	22 (44%)	18 (36%)	22 (44%)
Pars Distalis, Adenoma, Multiple	3 (6%)	2 (4%)	2 (4%)	1 (2%)
Pars Distalis, Carcinoma	1 (2%)		1 (2%)	
Pars Nervosa, Adenoma				1 (2%)
Thyroid Gland	(50)	(50)	(50)	(50)
C-cell, Adenoma	11 (22%)	3 (6%)	6 (12%)	4 (8%)
C-cell, Carcinoma	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Follicular Cell, Adenoma	1 (2%)		1 (2%)	
Follicular Cell, Carcinoma	2 (4%)	1 (2%)		
GENERAL BODY SYSTEM				
Peritoneum	(0)	(1)	(0)	(0)
Yolk Sac Carcinoma, Metastatic, Ovary		1 (100%)		
Tissue NOS	(0)	(0)	(0)	(1)
Schwannoma Malignant				1 (100%)
GENITAL SYSTEM				
Clitoral Gland	(50)	(50)	(50)	(50)
Adenoma	3 (6%)	3 (6%)	6 (12%)	4 (8%)
Ovary	(49)	(50)	(50)	(49)
Granulosa Cell Tumor Benign		1 (2%)		1 (2%)
Left, Yolk Sac Carcinoma		1 (2%)		
Right, Yolk Sac Carcinoma, Metastatic, Ovary		1 (2%)		
Uterus	(50)	(50)	(50)	(49)
Hemangioma				1 (2%)

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Species/Strain: RATS/F 344

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Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Polyp Stromal	8 (16%)	6 (12%)	10 (20%)	5 (10%)
Sarcoma Stromal		2 (4%)		
Bilateral, Polyp Stromal				1 (2%)
Vagina	(0)	(0)	(3)	(0)
Polyp			2 (67%)	
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(1)	(1)	(1)	(4)
Mediastinal, Carcinoma, Metastatic,	1 (100%)			
Thyroid Gland				
Lymph Node, Mesenteric	(50)	(49)	(50)	(49)
Spleen	(50)	(50)	(50)	(49)
Thymus	(48)	(47)	(48)	(43)
Thymoma Benign	1 (2%)			
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(49)
Adenoma	1 (2%)	2 (4%)		
Adenoma, Multiple	1 (2%)			
Fibroadenoma	17 (34%)	16 (32%)	9 (18%)	17 (35%)
Fibroadenoma, Multiple	12 (24%)	12 (24%)	14 (28%)	6 (12%)
Skin	(50)	(50)	(50)	(50)
Keratoacanthoma			1 (2%)	
Squamous Cell Papilloma			1 (2%)	
Subcutaneous Tissue, Fibroma	1 (2%)	1 (2%)		1 (2%)
Subcutaneous Tissue, Fibrosarcoma		3 (6%)	2 (4%)	1 (2%)
Subcutaneous Tissue, Schwannoma	1 (2%)			
Malignant				
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Osteosarcoma	1 (2%)			
Skeletal Muscle	(1)	(0)	(0)	(0)
Osteosarcoma, Metastatic, Bone	1 (100%)			

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FISCHER 344 RATS FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Astrocytoma Malignant			1 (2%)	
Carcinoma, Metastatic, Pituitary Gland	1 (2%)		1 (2%)	
Spinal Cord	(0)	(0)	(1)	(0)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma			1 (2%)	1 (2%)
Alveolar/Bronchiolar Adenoma, Multiple		1 (2%)		
Carcinoma, Metastatic, Uncertain Primary Site			1 (2%)	
Fibrosarcoma, Metastatic, Skin		1 (2%)		
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla				1 (2%)
Schwannoma Malignant, Metastatic, Tissue Nos				1 (2%)
Nose	(50)	(49)	(49)	(49)
SPECIAL SENSES SYSTEM				
Ear	(1)	(1)	(0)	(1)
Pinna, Neural Crest Tumor		1 (100%)		1 (100%)
Eye	(50)	(50)	(50)	(50)
Harderian Gland	(50)	(50)	(49)	(50)
Zymbal's Gland	(0)	(0)	(1)	(0)
Carcinoma			1 (100%)	
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(49)
Urinary Bladder	(50)	(50)	(50)	(50)
SYSTEMIC LESIONS				

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Species/Strain: RATS/F 344

Pathologist: TOFT, J. - Unknown, U.

Lab: BAT

FISCHER 344 RATS FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Multiple Organs Leukemia Mononuclear	*(50) 9 (18%)	*(50) 9 (18%)	*(50) 8 (16%)	*(50) 9 (18%)

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* Number of animals with any tissue examined microscopically

Test Type: CHRONIC
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FISCHER 344 RATS FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	48	46	44	42
Total Primary Neoplasms	99	89	87	83
Total Animals with Benign Neoplasms	46	42	41	37
Total Benign Neoplasms	82	71	73	67
Total Animals with Malignant Neoplasms	16	16	12	15
Total Malignant Neoplasms	17	17	14	15
Total Animals with Metastatic Neoplasms	3	2	2	2
Total Metastatic Neoplasms	3	6	2	2
Total Animals with Malignant Neoplasms Uncertain Primary Site			1	
Total Animals with Neoplasms Uncertain-Benign or Malignant		1		1
Total Uncertain Neoplasms		1		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