

TDMS No. 97008 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344

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

CAS Number: 107-19-7

Pathologist: HARBO, S. - LIEUALLEN, W.

F1_R2

Date Report Reqsted: 08/09/2006

Time Report Reqsted: 14:01:40

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

Lab: BNW

C Number: C97008

Lock Date: 08/16/2004

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25021 TSAC

25020 NATD

25019 MSAC

Removal Date Range: ALL

Treatment Groups: Include ALL

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Pathologist: HARBO, S. - LIEUALLEN, W.

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

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	20	19	26	30
Natural Death	2	8	9	4
Survivors				
Moribund Sacrifice	1			
Terminal Sacrifice	26	23	15	16
Animals Examined Microscopically	49	50	50	50
ALIMENTARY SYSTEM				
Intestine Large, Colon	(47)	(46)	(45)	(49)
Intestine Large, Rectum	(47)	(47)	(46)	(50)
Adenoma		1 (2%)		1 (2%)
Intestine Small, Jejunum	(46)	(45)	(45)	(48)
Adenoma		1 (2%)		
Liver	(49)	(50)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin				1 (2%)
Hepatocellular Adenoma		1 (2%)		
Hepatocellular Carcinoma	1 (2%)			
Mesentery	(11)	(14)	(7)	(3)
Oral Mucosa	(0)	(1)	(1)	(0)
Squamous Cell Carcinoma		1 (100%)		
Squamous Cell Papilloma			1 (100%)	
Pancreas	(49)	(50)	(50)	(50)
Mixed Tumor Benign	2 (4%)			1 (2%)
Salivary Glands	(49)	(50)	(50)	(50)
Stomach, Forestomach	(49)	(50)	(50)	(50)
Stomach, Glandular	(49)	(50)	(50)	(50)
Tongue	(1)	(0)	(2)	(1)
Squamous Cell Papilloma			1 (50%)	
CARDIOVASCULAR SYSTEM				
Heart	(49)	(50)	(50)	(50)

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

Test Type: CHRONIC

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Pathologist: HARBO, S. - LIEUALLEN, W.

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

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
Schwannoma Benign	1 (2%)			1 (2%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(49)	(50)	(50)	(50)
Adenoma				2 (4%)
Adrenal Medulla	(49)	(50)	(50)	(50)
Pheochromocytoma Benign	6 (12%)	10 (20%)	3 (6%)	8 (16%)
Pheochromocytoma Complex			1 (2%)	
Pheochromocytoma Malignant	3 (6%)	2 (4%)		1 (2%)
Bilateral, Pheochromocytoma Benign	2 (4%)	2 (4%)	2 (4%)	1 (2%)
Islets, Pancreatic	(49)	(50)	(50)	(50)
Adenoma	4 (8%)	3 (6%)	6 (12%)	4 (8%)
Carcinoma	5 (10%)	4 (8%)	3 (6%)	4 (8%)
Parathyroid Gland	(47)	(44)	(49)	(50)
Pituitary Gland	(49)	(50)	(50)	(50)
Pars Distalis, Adenoma	36 (73%)	38 (76%)	34 (68%)	32 (64%)
Pars Intermedia, Adenoma	1 (2%)			
Thyroid Gland	(49)	(50)	(50)	(50)
Bilateral, C-cell, Adenoma		1 (2%)		
C-cell, Adenoma	4 (8%)	8 (16%)	7 (14%)	7 (14%)
C-cell, Carcinoma	3 (6%)	3 (6%)	1 (2%)	2 (4%)
Follicular Cell, Adenoma	1 (2%)	2 (4%)		
Follicular Cell, Carcinoma				2 (4%)
GENERAL BODY SYSTEM				
Peritoneum	(1)	(0)	(0)	(0)
Tissue NOS	(1)	(0)	(0)	(0)
Thoracic, Lipoma	1 (100%)			
GENITAL SYSTEM				
Coagulating Gland	(0)	(0)	(1)	(0)
Epididymis	(49)	(50)	(50)	(50)
Penis	(0)	(0)	(0)	(1)
Preputial Gland	(49)	(49)	(50)	(49)
Adenoma	3 (6%)		1 (2%)	6 (12%)

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Pathologist: HARBO, S. - LIEUALLEN, W.

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Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
Carcinoma				1 (2%)
Prostate	(49)	(50)	(50)	(50)
Seminal Vesicle	(49)	(50)	(50)	(50)
Testes	(49)	(50)	(50)	(50)
Bilateral, Interstitial Cell, Adenoma	27 (55%)	21 (42%)	15 (30%)	31 (62%)
Interstitial Cell, Adenoma	11 (22%)	16 (32%)	18 (36%)	11 (22%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(49)	(50)	(50)	(50)
Lymph Node	(5)	(3)	(7)	(8)
Lymph Node, Bronchial	(6)	(4)	(8)	(7)
Lymph Node, Mandibular	(0)	(1)	(1)	(0)
Lymph Node, Mediastinal	(24)	(24)	(24)	(26)
Lymph Node, Mesenteric	(49)	(50)	(50)	(49)
Spleen	(49)	(50)	(49)	(49)
Thymus	(47)	(43)	(46)	(45)
Thymoma Benign	1 (2%)			
INTEGUMENTARY SYSTEM				
Mammary Gland	(30)	(29)	(28)	(34)
Adenoma	2 (7%)		2 (7%)	
Fibroadenoma	1 (3%)		3 (11%)	1 (3%)
Skin	(49)	(50)	(50)	(50)
Basal Cell Adenoma	1 (2%)	3 (6%)	1 (2%)	1 (2%)
Keratoacanthoma	3 (6%)	5 (10%)	2 (4%)	4 (8%)
Keratoacanthoma, Multiple	1 (2%)			
Squamous Cell Carcinoma				1 (2%)
Squamous Cell Papilloma		1 (2%)		2 (4%)
Sebaceous Gland, Adenoma	1 (2%)			
Subcutaneous Tissue, Fibroma	3 (6%)	3 (6%)	3 (6%)	2 (4%)
Subcutaneous Tissue, Fibrosarcoma	1 (2%)			2 (4%)
Subcutaneous Tissue, Fibrous		1 (2%)		1 (2%)
Histiocytoma				
Subcutaneous Tissue, Lipoma	2 (4%)			
Subcutaneous Tissue, Osteosarcoma			1 (2%)	
Subcutaneous Tissue, Schwannoma	1 (2%)			
Malignant				

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Pathologist: HARBO, S. - LIEUALLEN, W.

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

Species/Strain: RATS/F 344

Lab: BNW

FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
MUSCULOSKELETAL SYSTEM				
Bone	(49)	(50)	(50)	(50)
Chordoma	1 (2%)			
Osteosarcoma	1 (2%)	1 (2%)		1 (2%)
NERVOUS SYSTEM				
Brain	(49)	(50)	(50)	(50)
Ependymoma Benign		1 (2%)		
Granular Cell Tumor Benign				1 (2%)
Oligodendroglioma Benign				1 (2%)
RESPIRATORY SYSTEM				
Larynx	(48)	(50)	(50)	(50)
Lung	(49)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma		1 (2%)		2 (4%)
Alveolar/Bronchiolar Carcinoma		1 (2%)		
Chordoma, Metastatic, Bone	1 (2%)			
Fibrous Histiocytoma, Metastatic, Skin				1 (2%)
Neural Crest Tumor, Metastatic, Skin	1 (2%)			
Osteosarcoma, Metastatic, Bone		1 (2%)		1 (2%)
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla				1 (2%)
Alveolar Epithelium, Adenoma	1 (2%)			
Nose	(49)	(49)	(50)	(49)
Respiratory Epithelium, Adenoma				3 (6%)
Pleura	(0)	(1)	(0)	(0)
Mesothelium, Osteosarcoma, Metastatic, Bone		1 (100%)		
SPECIAL SENSES SYSTEM				
Ear	(1)	(0)	(0)	(0)
Pinna, Neural Crest Tumor	1 (100%)			
Eye	(49)	(50)	(50)	(50)

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

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Species/Strain: RATS/F 344

FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
Zymbal's Gland Adenoma	(0)	(1) 1 (100%)	(0)	(0)
URINARY SYSTEM				
Kidney	(49)	(50)	(50)	(50)
Urinary Bladder	(49)	(50)	(50)	(50)
SYSTEMIC LESIONS				
Multiple Organs	*(49)	*(50)	*(50)	*(50)
Histiocytic Sarcoma		2 (4%)		2 (4%)
Leukemia Mononuclear	21 (43%)	26 (52%)	23 (46%)	37 (74%)
Mesothelioma Benign				1 (2%)
Mesothelioma Malignant	1 (2%)			

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: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344

FISCHER 344 RATS MALE	CONTROL	16 PPM	32 PPM	64 PPM
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	49	50	49	49
Total Primary Neoplasms	154	160	128	177
Total Animals with Benign Neoplasms	48	50	47	48
Total Benign Neoplasms	115	119	99	122
Total Animals with Malignant Neoplasms	32	33	24	42
Total Malignant Neoplasms	38	41	29	54
Total Animals with Metastatic Neoplasms	2	1		3
Total Metastatic Neoplasms	2	2		4
Total Animals with Malignant Neoplasms Uncertain Primary Site				
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

Pathologist: HARBO, S. - LIEUALLEN, W.

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

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	18	16	19	19
Natural Death	3	3	4	5
Survivors				
Natural Death		1		
Terminal Sacrifice	29	30	27	26
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Fibrosarcoma	1 (2%)			
Intestine Large, Cecum	(48)	(48)	(47)	(46)
Intestine Large, Colon	(48)	(48)	(47)	(47)
Intestine Small, Duodenum	(49)	(50)	(48)	(47)
Intestine Small, Ileum	(48)	(48)	(46)	(46)
Intestine Small, Jejunum	(48)	(48)	(47)	(46)
Liver	(50)	(50)	(50)	(50)
Fibrous Histiocytoma, Metastatic, Skin			1 (2%)	
Hepatocellular Adenoma				1 (2%)
Mesentery	(13)	(12)	(10)	(9)
Oral Mucosa	(1)	(0)	(2)	(1)
Squamous Cell Carcinoma				1 (100%)
Squamous Cell Papilloma			1 (50%)	
Pancreas	(50)	(50)	(50)	(50)
Acinus, Adenoma			1 (2%)	
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Stomach, Glandular	(49)	(50)	(50)	(48)
Tongue	(0)	(0)	(2)	(1)
Squamous Cell Carcinoma			1 (50%)	
Squamous Cell Papilloma				1 (100%)
CARDIOVASCULAR SYSTEM				

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Species/Strain: RATS/F 344

Pathologist: HARBO, S. - LIEUALLEN, W.

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
Heart Schwannoma Benign	(50)	(50)	(50)	(50) 1 (2%)
ENDOCRINE SYSTEM				
Adrenal Cortex Adenoma	(50)	(50) 1 (2%)	(50) 2 (4%)	(50) 1 (2%)
Adrenal Medulla Pheochromocytoma Benign	(50) 1 (2%)	(50) 1 (2%)	(50) 1 (2%)	(50) 1 (2%)
Islets, Pancreatic Adenoma	(50) 1 (2%)	(50)	(50) 2 (4%)	(50)
Parathyroid Gland Adenoma	(49)	(47) 1 (2%)	(50)	(47)
Pituitary Gland Pars Distalis, Adenoma	(50) 30 (60%)	(50) 32 (64%)	(50) 31 (62%)	(50) 29 (58%)
Thyroid Gland Bilateral, C-cell, Adenoma	(50) 1 (2%)	(50)	(50)	(50) 1 (2%)
C-cell, Adenoma	2 (4%)	9 (18%)	2 (4%)	5 (10%)
C-cell, Carcinoma	2 (4%)	1 (2%)	2 (4%)	1 (2%)
Follicular Cell, Adenoma		2 (4%)		
Follicular Cell, Carcinoma		1 (2%)		1 (2%)
GENERAL BODY SYSTEM				
Tissue NOS	(1)	(0)	(1)	(0)
GENITAL SYSTEM				
Clitoral Gland Adenoma	(50) 4 (8%)	(49) 3 (6%)	(49) 5 (10%)	(47) 3 (6%)
Adenoma, Multiple			1 (2%)	1 (2%)
Papilloma		5 (10%)	1 (2%)	1 (2%)
Schwannoma Malignant, Metastatic, Skin		1 (2%)		
Ovary	(50)	(50)	(50)	(50)
Uterus Carcinoma	(50)	(50)	(50)	(50) 2 (4%)
Hemangiosarcoma	1 (2%)			
Polyp Stromal	12 (24%)	6 (12%)	9 (18%)	8 (16%)

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Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
Sarcoma Stromal		2 (4%)	1 (2%)	1 (2%)
Cervix, Granular Cell Tumor Benign		1 (2%)		
Cervix, Polyp Stromal		2 (4%)		
Endometrium, Adenoma			1 (2%)	
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Lymph Node	(4)	(0)	(3)	(3)
Lymph Node, Bronchial	(4)	(2)	(4)	(10)
Lymph Node, Mediastinal	(29)	(27)	(30)	(25)
Lymph Node, Mesenteric	(49)	(50)	(49)	(50)
Spleen	(50)	(50)	(50)	(49)
Hemangiosarcoma	1 (2%)			1 (2%)
Thymus	(46)	(45)	(47)	(48)
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Adenoma	3 (6%)	1 (2%)	1 (2%)	1 (2%)
Carcinoma	7 (14%)	2 (4%)	4 (8%)	3 (6%)
Fibroadenoma	16 (32%)	15 (30%)	14 (28%)	15 (30%)
Fibroadenoma, Multiple	10 (20%)	7 (14%)	10 (20%)	11 (22%)
Skin	(50)	(50)	(50)	(50)
Keratoacanthoma		1 (2%)		1 (2%)
Squamous Cell Papilloma				1 (2%)
Trichoepithelioma	1 (2%)			
Subcutaneous Tissue, Fibroma	1 (2%)		1 (2%)	2 (4%)
Subcutaneous Tissue, Fibrosarcoma	1 (2%)			
Subcutaneous Tissue, Fibrous			1 (2%)	
Histiocytoma				
Subcutaneous Tissue, Osteosarcoma				1 (2%)
Subcutaneous Tissue, Schwannoma		1 (2%)		
Malignant				
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)

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CAS Number: 107-19-7

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Species/Strain: RATS/F 344

Pathologist: HARBO, S. - LIEUALLEN, W.

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

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
Skeletal Muscle	(2)	(0)	(1)	(0)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Astrocytoma Malignant			1 (2%)	1 (2%)
RESPIRATORY SYSTEM				
Larynx	(50)	(50)	(50)	(50)
Lung	(50)	(50)	(50)	(50)
Alveolar/Bronchiolar Adenoma		1 (2%)		1 (2%)
Alveolar/Bronchiolar Carcinoma	1 (2%)			
Carcinoma, Metastatic, Mammary Gland				1 (2%)
Carcinoma, Metastatic, Zymbal'S Gland			1 (2%)	
Fibrous Histiocytoma, Metastatic, Skin			1 (2%)	
Osteosarcoma, Metastatic, Skin				1 (2%)
Nose	(49)	(49)	(50)	(50)
Glands, Carcinoma		1 (2%)		
Respiratory Epithelium, Adenoma			1 (2%)	
SPECIAL SENSES SYSTEM				
Eye	(49)	(50)	(50)	(50)
Zymbal's Gland	(0)	(0)	(2)	(1)
Carcinoma			2 (100%)	1 (100%)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(49)
Renal Tubule, Adenoma		1 (2%)		
Urinary Bladder	(49)	(50)	(50)	(49)
SYSTEMIC LESIONS				
Multiple Organs	*(50)	*(50)	*(50)	*(50)
Histiocytic Sarcoma				1 (2%)

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

TDMS No. 97008 - 05

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

Date Report Reqsted: 08/09/2006

Test Type: CHRONIC

PROPARGYL ALCOHOL

Time Report Reqsted: 14:01:40

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

Species/Strain: RATS/F 344

Pathologist: HARBO, S. - LIEUALLEN, W.

Lab: BNW

FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
Leukemia Mononuclear	20 (40%)	13 (26%)	23 (46%)	26 (52%)
Mesothelioma Benign	1 (2%)			

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Species/Strain: RATS/F 344

FISCHER 344 RATS FEMALE	CONTROL	16 PPM	32 PPM	64 PPM
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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	47	47	50	47
Total Primary Neoplasms	117	110	119	125
Total Animals with Benign Neoplasms	42	45	43	41
Total Benign Neoplasms	82	89	84	85
Total Animals with Malignant Neoplasms	26	20	29	33
Total Malignant Neoplasms	34	21	35	40
Total Animals with Metastatic Neoplasms		1	2	2
Total Metastatic Neoplasms		1	3	2
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