

TDMs No. 99023 - 03

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 08/15/2008

Test Type: CHRONIC

beta-Myrcene

Time Report Requested: 14:01:25

Route: GAVAGE

CAS Number: 123-35-3

First Dose M/F: 03/25/02 / 03/26/02

Species/Strain: RATS/F 344

Lab: BAT

F1_Rev.2_R2

C Number: C99023
Lock Date: 12/22/2004
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.0.0

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CAS Number: 123-35-3

First Dose M/F: 03/25/02 / 03/26/02

Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Dosing Accident		1		1
Moribund Sacrifice	18	8	13	24
Natural Death	3	5	9	25
Survivors				
Terminal Sacrifice	29	36	28	
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Inflammation, Chronic			1 [2.0]	
Perforation		1 [4.0]		1
Muscularis, Periesophageal Tissue, Hemorrhage				1 [2.0]
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Inflammation, Chronic			1 [2.0]	
Intestine Large, Colon	(50)	(50)	(50)	(50)
Inflammation, Chronic			1 [2.0]	
Parasite Metazoan	1 [1.0]	1 [1.0]	2 [1.5]	
Intestine Large, Rectum	(50)	(50)	(50)	(48)
Inflammation, Chronic			1 [2.0]	
Parasite Metazoan	6 [1.2]	4 [1.0]	3 [1.3]	
Ulcer				1 [3.0]
Intestine Small, Duodenum	(49)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Parasite Metazoan	1 [1.0]			
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Angiectasis	2 [2.0]	4 [1.3]	3 [1.7]	
Basophilic Focus	23	12	5	2
Clear Cell Focus	14	19	9	
Degeneration, Cystic	1 [1.0]	1 [1.0]		
Eosinophilic Focus	6	5	3	
Fatty Change	4 [1.8]	4 [1.5]	2 [2.0]	

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Hemorrhage				1 [3.0]
Hepatodiaphragmatic Nodule	3	3	2	3
Inflammation, Chronic	34 [1.1]	36 [1.1]	19 [1.1]	1 [1.0]
Mixed Cell Focus	6	1		
Necrosis		4 [1.8]	4 [2.0]	4 [1.3]
Regeneration		1 [2.0]		
Bile Duct, Hyperplasia	39 [1.7]	42 [1.9]	39 [1.9]	6 [1.0]
Centrilobular, Degeneration	3 [2.0]	1 [2.0]	1 [2.0]	
Hepatocyte, Hypertrophy	1 [1.0]			30 [1.6]
Serosa, Hyperplasia		1 [2.0]		
Serosa, Inflammation, Suppurative			1 [3.0]	
Mesentery	(13)	(8)	(5)	(3)
Fat, Necrosis	12 [2.1]	7 [2.0]	4 [2.8]	3 [2.0]
Oral Mucosa	(2)	(0)	(0)	(0)
Inflammation, Chronic	1 [1.0]			
Pancreas	(50)	(50)	(50)	(50)
Inflammation, Granulomatous	1 [4.0]			
Necrosis	1 [3.0]			
Acinus, Atrophy	9 [1.2]	14 [1.2]	11 [1.6]	5 [1.2]
Acinus, Hyperplasia	8 [1.8]	7 [1.6]	2 [2.0]	
Artery, Inflammation, Chronic			1 [2.0]	
Artery, Thrombosis				1 [4.0]
Duct, Cyst	2	3	5	
Salivary Glands	(50)	(50)	(50)	(48)
Atrophy				1 [2.0]
Cyst		1		
Stomach, Forestomach	(50)	(50)	(50)	(50)
Erosion	1 [1.0]			3 [2.7]
Fibrosis			1 [4.0]	
Inflammation, Chronic Active	5 [2.4]	3 [2.0]	12 [2.5]	27 [2.2]
Ulcer	2 [3.0]	2 [2.5]	5 [2.8]	18 [2.3]
Serosa, Hyperplasia				1 [2.0]
Stomach, Glandular	(50)	(50)	(50)	(50)
Inflammation, Chronic	3 [1.7]	7 [1.1]	2 [1.5]	
Mineralization	1 [2.0]		1 [1.0]	
Ulcer	1 [2.0]	2 [2.5]	1 [3.0]	1 [2.0]
Epithelium, Ectasia	14 [1.0]	27 [1.1]	33 [1.1]	14 [1.1]
Epithelium, Hyperplasia	1 [2.0]	2 [1.5]	1 [2.0]	

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	39 [1.5]	43 [1.6]	42 [1.6]	38 [1.2]
Atrium, Thrombosis	2 [2.5]		2 [3.0]	
Endocardium, Hyperplasia				1 [1.0]
Epicardium, Hyperplasia				1 [1.0]
Myocardium, Mineralization			1 [3.0]	1 [2.0]
Valve, Thrombosis			2 [2.0]	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Hyperplasia	3 [1.3]	5 [1.4]	9 [1.6]	1 [2.0]
Necrosis		2 [2.0]		1 [1.0]
Vacuolization Cytoplasmic	13 [1.2]	16 [1.1]	15 [1.4]	7 [1.1]
Capsule, Hyperplasia		1 [1.0]		
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	9 [1.4]	9 [1.7]	13 [1.8]	
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	1 [2.0]			
Parathyroid Gland	(45)	(47)	(48)	(45)
Hyperplasia			1 [2.0]	2 [2.5]
Pituitary Gland	(50)	(49)	(50)	(50)
Angiectasis	8 [1.5]	8 [2.0]	9 [1.7]	1 [1.0]
Cyst	6	9	5	2
Pars Distalis, Hyperplasia	15 [1.5]	11 [1.3]	10 [1.8]	4 [1.3]
Thyroid Gland	(50)	(50)	(50)	(49)
Cyst	1		1	
Inflammation, Granulomatous				1 [1.0]
C-cell, Hyperplasia	20 [1.4]	18 [1.5]	15 [1.3]	1 [1.0]
Follicle, Hyperplasia	4 [2.0]	2 [3.0]	3 [1.7]	
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				

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FISCHER 344 RATS MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Epididymis	(50)	(50)	(50)	(48)
Granuloma Sperm			1 [1.0]	
Inflammation, Chronic			1 [2.0]	
Vacuolization Cytoplasmic, Focal	1 [3.0]			
Preputial Gland	(50)	(50)	(50)	(47)
Atrophy	1 [2.0]			
Cyst	1			
Hyperplasia	1 [2.0]	2 [2.0]		
Inflammation, Chronic	42 [1.6]	44 [1.6]	43 [1.7]	36 [1.4]
Prostate	(50)	(50)	(50)	(50)
Atrophy				1 [2.0]
Hyperplasia	7 [1.0]	3 [1.7]	6 [1.5]	1 [1.0]
Inflammation, Chronic	4 [1.8]	6 [1.5]	8 [1.5]	6 [1.7]
Inflammation, Chronic Active	1 [2.0]			
Necrosis				1 [3.0]
Seminal Vesicle	(50)	(50)	(50)	(50)
Atrophy				1 [2.0]
Testes	(50)	(50)	(50)	(48)
Interstitial Cell, Hyperplasia	6 [1.7]	2 [1.5]	2 [1.0]	9 [1.6]

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia	8 [2.8]	5 [2.6]	7 [1.9]	1 [2.0]
Lymph Node	(3)	(5)	(6)	(0)
Mediastinal, Ectasia	1 [2.0]			
Mediastinal, Hemorrhage		1 [2.0]	1 [2.0]	
Mediastinal, Hyperplasia, Lymphoid		2 [3.0]		
Mediastinal, Pigmentation, Hemosiderin		1 [2.0]	1 [2.0]	
Lymph Node, Mandibular	(0)	(0)	(1)	(0)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Pigmentation, Hemosiderin				1 [2.0]
Spleen	(50)	(50)	(50)	(50)
Atrophy	1 [2.0]	2 [2.5]	6 [1.7]	46 [3.2]
Congestion			2 [2.0]	
Fibrosis	3 [2.7]			
Hematopoietic Cell Proliferation	8 [2.0]	6 [1.7]	4 [2.0]	
Infarct			1 [3.0]	
Necrosis, Focal		1 [2.0]	1 [3.0]	

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Lab: BAT

FISCHER 344 RATS MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Thymus	(47)	(50)	(48)	(47)
Atrophy	40 [2.9]	42 [3.4]	43 [3.4]	44 [3.8]
Inflammation, Suppurative		1 [3.0]		
Epithelial Cell, Hyperplasia			1 [3.0]	
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(49)	(50)
Cyst			1	
Inflammation, Chronic			1 [2.0]	
Skin	(50)	(50)	(50)	(50)
Hyperkeratosis		1 [1.0]	1 [1.0]	
Inflammation, Chronic			1 [1.0]	
Ulcer			1 [3.0]	
Subcutaneous Tissue, Inflammation, Granulomatous		1 [2.0]		
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(1)	(1)	(1)	(0)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Hydrocephalus	3 [2.7]			
Cerebrum, Compression		1 [3.0]		
Hypothalamus, Compression	1 [3.0]			
Neuron, Necrosis, Focal			1 [3.0]	
Peripheral Nerve	(2)	(0)	(0)	(0)
Axon, Degeneration	1 [3.0]			
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Inflammation	32 [1.2]	33 [1.0]	18 [1.1]	14 [1.0]
Inflammation, Chronic	1 [1.0]			
Metaplasia, Osseous	5 [1.0]		1 [1.0]	2 [1.0]

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Lab: BAT

FISCHER 344 RATS MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Alveolar Epithelium, Hyperplasia	9 [1.3]	9 [1.9]	2 [1.5]	4 [1.3]
Alveolus, Emphysema	1 [3.0]			
Nose	(50)	(50)	(50)	(50)
Dysplasia			1 [2.0]	
Inflammation, Chronic Active	14 [1.5]	19 [1.2]	27 [1.3]	35 [1.6]
Ulcer			1 [1.0]	
Olfactory Epithelium, Degeneration	45 [1.2]	49 [1.2]	47 [1.4]	49 [2.6]
Trachea	(50)	(50)	(50)	(50)
Peritracheal Tissue, Inflammation, Chronic		1 [3.0]		
SPECIAL SENSES SYSTEM				
Eye	(50)	(50)	(50)	(50)
Cataract	1 [3.0]			
Anterior Chamber, Inflammation, Suppurative		1 [3.0]		
Cornea, Inflammation, Suppurative		1 [3.0]		
Retina, Degeneration		1 [3.0]		
Sclera, Metaplasia, Osseous	23 [1.5]	25 [1.4]	30 [1.5]	6 [1.5]
Harderian Gland	(50)	(50)	(50)	(49)
Atrophy		1 [2.0]		1 [3.0]
Cyst	1			
Hyperplasia	1 [1.0]	2 [1.5]		1 [2.0]
Inflammation, Chronic	2 [1.0]	1 [1.0]		2 [2.5]
Pigmentation, Porphyrin	50 [1.9]	50 [2.1]	50 [2.2]	49 [2.4]
Zymbal's Gland	(0)	(1)	(0)	(0)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Hydronephrosis	1 [3.0]			
Inflammation, Suppurative, Focal	1 [1.0]	22 [1.0]	22 [1.0]	
Inflammation, Chronic	1 [2.0]			
Metaplasia, Osseous			1 [2.0]	
Mineralization		1 [1.0]		
Necrosis	1 [3.0]	2 [2.5]	2 [3.0]	
Nephropathy	45 [1.2]	48 [2.0]	48 [2.6]	49 [3.9]
Pigmentation	1 [3.0]			

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Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Papilla, Mineralization	1 [1.0]	48 [2.1]	40 [1.9]	4 [1.0]
Renal Tubule, Cyst	1	3	2	
Renal Tubule, Hyperplasia			2 [1.0]	
Renal Tubule, Hyperplasia, Oncocytic		3 [1.7]		
Renal Tubule, Nephrosis		42 [1.8]	46 [2.7]	48 [3.9]
Transitional Epithelium, Hyperplasia		21 [1.4]	19 [1.4]	18 [1.4]
Vein, Thrombosis			3 [2.3]	3 [2.7]
Urinary Bladder Inflammation	(50)	(50)	(50)	(49) 1 [2.0]

*** END OF MALE ***

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Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Accidently Killed		1		
Dosing Accident		1		1
Moribund Sacrifice	11	9	12	7
Natural Death	8	6	10	9
Survivors				
Terminal Sacrifice	31	33	28	33
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(49)	(50)
Perforation		1		
Muscularis, Inflammation, Chronic				1 [2.0]
Intestine Large, Colon	(50)	(50)	(50)	(50)
Parasite Metazoan		1 [1.0]	1 [1.0]	
Ulcer				1 [2.0]
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Parasite Metazoan	1 [1.0]	5 [1.0]	5 [1.4]	2 [1.5]
Ulcer	1 [3.0]			
Intestine Small, Duodenum	(50)	(50)	(49)	(50)
Intestine Small, Ileum	(50)	(50)	(49)	(50)
Epithelium, Hyperplasia, Focal				1 [2.0]
Liver	(50)	(50)	(49)	(50)
Angiectasis	1 [2.0]			1 [1.0]
Basophilic Focus	44	43	42	31
Clear Cell Focus	4	6	6	8
Eosinophilic Focus	6	10	15	24
Fatty Change	3 [2.0]	3 [2.0]	4 [1.8]	1 [1.0]
Fibrosis			2 [1.0]	
Hemorrhage		1 [3.0]		
Hepatodiaphragmatic Nodule	6	5	6	8
Inflammation, Chronic	41 [1.0]	41 [1.1]	41 [1.0]	33 [1.0]
Mineralization			1 [1.0]	
Mixed Cell Focus	6	5	3	6

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Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Necrosis	2 [1.5]	1 [3.0]	1 [2.0]	1 [1.0]
Regeneration	1 [2.0]			
Bile Duct, Cyst				1 [1.0]
Bile Duct, Hyperplasia	8 [1.1]	11 [1.3]	12 [1.2]	11 [1.5]
Centrilobular, Degeneration	1 [3.0]		2 [2.5]	1 [3.0]
Centrilobular, Necrosis			2 [3.0]	
Sinusoid, Congestion	1 [3.0]			
Sinusoid, Infiltration Cellular, Histiocyte	1 [3.0]			
Mesentery	(7)	(13)	(7)	(9)
Fat, Necrosis	6 [2.3]	13 [2.2]	7 [2.1]	9 [2.3]
Oral Mucosa	(1)	(0)	(0)	(0)
Pancreas	(50)	(50)	(49)	(50)
Acinus, Atrophy	9 [1.2]	9 [1.1]	10 [1.1]	3 [1.0]
Acinus, Hyperplasia	1 [1.0]		1 [2.0]	
Duct, Cyst	3	2	3	4
Salivary Glands	(50)	(49)	(49)	(50)
Hyperplasia				1 [2.0]
Stomach, Forestomach	(50)	(50)	(49)	(50)
Inflammation, Chronic Active	1 [1.0]	1 [2.0]	2 [2.0]	3 [1.3]
Ulcer			1 [3.0]	1 [1.0]
Stomach, Glandular	(50)	(50)	(49)	(50)
Mineralization	1 [2.0]	4 [1.3]		1 [1.0]
Epithelium, Ectasia	38 [1.3]	39 [1.6]	36 [1.4]	38 [1.6]
Epithelium, Hyperplasia				1 [1.0]
Tongue	(1)	(0)	(1)	(0)
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(49)	(50)
Cardiomyopathy	43 [1.3]	31 [1.2]	30 [1.2]	34 [1.2]
Fibrosis		1 [2.0]		
Atrium, Thrombosis			1 [3.0]	
Myocardium, Inflammation, Chronic		1 [3.0]		
Valve, Inflammation, Chronic		1 [4.0]		
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Hyperplasia	10 [1.5]	10 [1.6]	12 [1.6]	8 [1.8]

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beta-Myrcene

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CAS Number: 123-35-3

First Dose M/F: 03/25/02 / 03/26/02

Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Necrosis			1 [2.0]	
Vacuolization Cytoplasmic	17 [1.3]	14 [1.2]	14 [1.6]	16 [1.5]
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	3 [1.0]	1 [1.0]	4 [1.5]	1 [2.0]
Islets, Pancreatic	(50)	(50)	(49)	(50)
Hyperplasia		2 [2.0]	4 [1.0]	
Parathyroid Gland	(47)	(48)	(47)	(45)
Cyst				1 [2.0]
Pituitary Gland	(50)	(50)	(50)	(50)
Angiectasis	17 [2.1]	24 [1.9]	16 [1.8]	14 [1.9]
Cyst	14	22	16	9
Fibrosis	1 [1.0]	2 [1.5]		
Pars Distalis, Hyperplasia	14 [1.8]	13 [1.7]	15 [1.4]	10 [1.8]
Pars Intermedia, Hyperplasia	1 [2.0]			
Thyroid Gland	(50)	(49)	(49)	(50)
Cyst			1	
C-cell, Hyperplasia	19 [1.5]	20 [1.8]	22 [1.4]	17 [1.6]
Follicle, Hyperplasia	1 [2.0]	1 [2.0]	4 [1.3]	4 [1.8]

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(50)	(50)
Cyst	3	1	1	
Hyperplasia	8 [1.6]	8 [1.5]	13 [1.3]	4 [2.0]
Inflammation, Chronic	22 [1.1]	11 [1.2]	26 [1.1]	14 [1.1]
Ovary	(50)	(50)	(50)	(50)
Atrophy		1 [3.0]		
Cyst	3	7	6	4
Uterus	(50)	(50)	(50)	(50)
Angiectasis				1 [2.0]
Cyst		2	2	
Dilatation	2 [1.5]	1 [3.0]	2 [2.0]	1 [1.0]
Inflammation, Suppurative		1 [2.0]		1 [2.0]
Inflammation, Chronic	1 [3.0]			1 [2.0]
Necrosis			1 [3.0]	

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

beta-Myrcene

Time Report Requested: 14:01:25

Route: GAVAGE

CAS Number: 123-35-3

First Dose M/F: 03/25/02 / 03/26/02

Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Endometrium, Hyperplasia, Cystic	4 [1.3]	7 [1.1]	7 [1.3]	13 [1.5]
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia	3 [2.0]	1 [3.0]	2 [1.5]	1 [2.0]
Lymph Node	(5)	(3)	(2)	(6)
Deep Cervical, Hyperplasia, Lymphoid	1 [1.0]	1 [2.0]		
Deep Cervical, Infiltration Cellular, Histiocyte				1 [2.0]
Deep Cervical, Pigmentation				1 [2.0]
Mediastinal, Ectasia		1 [3.0]		
Mediastinal, Hyperplasia, Lymphoid	1 [2.0]	2 [2.5]		1 [3.0]
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Infiltration Cellular, Histiocyte				1 [2.0]
Pigmentation, Hemosiderin				1 [2.0]
Spleen	(50)	(50)	(50)	(50)
Atrophy	6 [2.0]	2 [2.0]	3 [2.3]	2 [1.0]
Fibrosis			1 [3.0]	
Hematopoietic Cell Proliferation	7 [1.7]	12 [1.3]	13 [1.8]	9 [1.3]
Infarct			1 [3.0]	
Thymus	(49)	(48)	(49)	(50)
Atrophy	46 [3.2]	45 [3.6]	47 [3.3]	44 [3.3]
Cyst			1 [1.0]	
Infiltration Cellular, Lymphocyte	1 [3.0]	1 [2.0]		
Inflammation, Chronic				1 [2.0]
Epithelial Cell, Hyperplasia	1 [2.0]		1 [2.0]	
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(50)	(50)	(50)
Cyst	2	1	2	2
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion		1		
MUSCULOSKELETAL SYSTEM				
Skeletal Muscle	(0)	(0)	(1)	(0)

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Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Inflammation, Suppurative			1 [1.0]	
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Hydrocephalus	3 [2.7]	4 [2.5]	6 [2.7]	2 [2.5]
Hypothalamus, Compression	4 [2.8]	4 [3.0]	8 [3.1]	5 [3.0]
Meninges, Inflammation, Chronic			1 [1.0]	2 [1.0]
Spinal Cord	(1)	(0)	(0)	(0)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(49)	(50)
Congestion	1 [3.0]			
Edema		1 [3.0]		
Inflammation	34 [1.1]	43 [1.0]	40 [1.1]	32 [1.0]
Metaplasia, Osseous	1 [1.0]			2 [1.0]
Alveolar Epithelium, Hyperplasia	6 [1.5]	3 [2.0]	4 [1.5]	7 [1.3]
Nose	(50)	(50)	(50)	(50)
Erosion	1 [1.0]			
Inflammation, Chronic Active	16 [1.1]	10 [1.0]	13 [1.2]	10 [1.0]
Olfactory Epithelium, Degeneration	45 [1.0]	44 [1.0]	45 [1.0]	48 [1.0]
SPECIAL SENSES SYSTEM				
Ear	(0)	(3)	(0)	(0)
Hyperplasia		1 [1.0]		
Eye	(50)	(50)	(49)	(50)
Cataract	1 [3.0]		1 [3.0]	1 [3.0]
Degeneration				1 [2.0]
Optic Nerve, Atrophy	1 [3.0]			1 [3.0]
Retina, Atrophy				1 [3.0]
Sclera, Metaplasia, Osseous	1 [1.0]			1 [1.0]
Harderian Gland	(50)	(50)	(49)	(50)
Atrophy	1 [4.0]	1 [4.0]	2 [2.0]	
Hyperplasia	1 [2.0]		1 [1.0]	1 [2.0]
Inflammation, Chronic	7 [1.0]	8 [1.0]	7 [1.1]	2 [1.5]
Pigmentation, Porphyrin	50 [2.1]	48 [2.1]	48 [2.0]	45 [2.1]

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First Dose M/F: 03/25/02 / 03/26/02

Species/Strain: RATS/F 344

Lab: BAT

FISCHER 344 RATS FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
Zymbal's Gland	(0)	(0)	(0)	(2)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Inflammation, Suppurative, Focal		1 [1.0]		1 [1.0]
Mineralization	1 [2.0]			
Necrosis	1 [3.0]	1 [3.0]	1 [2.0]	
Nephropathy	26 [1.0]	43 [1.0]	41 [1.3]	44 [1.7]
Pigmentation	1 [3.0]			
Papilla, Inflammation, Suppurative	1 [1.0]			
Papilla, Mineralization	5 [1.0]	3 [1.0]	1 [1.0]	
Pelvis, Inflammation, Chronic	1 [2.0]	3 [2.0]		
Renal Tubule, Cyst	2		1	
Renal Tubule, Hyperplasia				1 [1.0]
Renal Tubule, Nephrosis		2 [1.0]	27 [1.0]	45 [1.2]
Transitional Epithelium, Hyperplasia	1 [1.0]	12 [1.3]	15 [1.3]	19 [1.2]
Urinary Bladder	(50)	(50)	(50)	(50)
Inflammation	2 [1.0]		1 [1.0]	

*** END OF REPORT ***