

**TDMSE No.** 95003 - 05

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

**Date Report Requested:** 07/06/2010

**Test Type:** CHRONIC

Methyl trans-styryl ketone

**Time Report Requested:** 12:57:38

**Route:** SKIN APPLICATION

**CAS Number:** 1896-62-4

**First Dose M/F:** 04/05/04 / 04/05/04

**Species/Strain:** RATS/F 344/N

**Lab:** SRI

F#2\_R2

**C Number:** C95003  
**Lock Date:** 01/29/2007  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
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## Disposition Summary

Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	15	14	19	17
Natural Death	8	6	9	3
Survivors				
Natural Death		1		1
Terminal Sacrifice	27	29	22	29
Animals Examined Microscopically	50	50	50	50

## ALIMENTARY SYSTEM

Intestine Large, Cecum	(50)	(49)	(49)	(50)
Angiectasis				1 [3.0]
Edema	3 [2.3]	2 [2.0]	2 [2.5]	1 [4.0]
Infiltration Cellular, Mixed Cell		1 [3.0]		
Intestine Large, Colon	(48)	(50)	(50)	(50)
Edema				1 [3.0]
Inflammation, Chronic			1 [2.0]	
Epithelium, Hyperplasia			1 [3.0]	
Intestine Large, Rectum	(46)	(48)	(48)	(48)
Edema				1 [3.0]
Epithelium, Hyperplasia			1 [2.0]	
Intestine Small, Duodenum	(49)	(50)	(50)	(50)
Epithelium, Hyperplasia	4 [2.3]		3 [2.7]	
Intestine Small, Ileum	(49)	(48)	(49)	(48)
Hemorrhage				1 [2.0]
Intestine Small, Jejunum	(46)	(45)	(45)	(48)
Inflammation, Chronic Active		1 [3.0]		
Epithelium, Hyperplasia			1 [2.0]	
Liver	(50)	(50)	(50)	(50)
Angiectasis		1 [2.0]		1 [1.0]
Basophilic Focus	20	23	19	27
Clear Cell Focus	16	19	14	10
Degeneration, Cystic	4 [1.5]	4 [1.5]	3 [1.7]	1 [1.0]

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FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Eosinophilic Focus	10	5	2	8
Fibrosis			1 [2.0]	
Hematopoietic Cell Proliferation				1 [1.0]
Hepatodiaphragmatic Nodule	3	9	6	7
Infiltration Cellular, Mixed Cell	2 [1.0]	2 [2.0]	4 [1.8]	2 [2.0]
Mixed Cell Focus	7	8	8	12
Necrosis, Focal	1 [2.0]	1 [1.0]		2 [2.5]
Thrombosis		1 [4.0]		
Bile Duct, Hyperplasia	40 [1.9]	31 [1.6]	29 [1.6]	37 [1.6]
Centrilobular, Necrosis	3 [2.0]	5 [2.8]	4 [2.5]	3 [2.0]
Hepatocyte, Hyperplasia, Focal	1 [3.0]	1 [2.0]	1 [2.0]	2 [1.5]
Hepatocyte, Vacuolization Cytoplasmic	9 [2.8]	6 [2.3]	6 [3.0]	6 [2.3]
Kupffer Cell, Pigmentation	1 [2.0]	1 [2.0]		1 [2.0]
Oval Cell, Hyperplasia		1 [3.0]		
Mesentery	(15)	(14)	(7)	(12)
Accessory Spleen	3	1		3
Hemorrhage		1 [4.0]		
Mineralization		1 [3.0]		
Fat, Necrosis	9 [2.9]	8 [2.4]	6 [2.5]	8 [2.6]
Oral Mucosa	(1)	(1)	(0)	(2)
Pancreas	(49)	(50)	(49)	(50)
Atrophy	32 [2.2]	27 [2.1]	27 [2.2]	26 [2.5]
Cyst	14	10	7	10
Acinus, Cytoplasmic Alteration	2 [3.5]	3 [3.0]	4 [3.0]	5 [2.8]
Acinus, Hyperplasia, Focal	4 [2.0]	1 [3.0]	1 [3.0]	2 [3.0]
Salivary Glands	(50)	(50)	(48)	(50)
Atrophy	1 [1.0]	1 [1.0]		
Necrosis		2 [2.0]		
Stomach, Forestomach	(50)	(50)	(50)	(50)
Edema	3 [3.0]	1 [3.0]	6 [3.2]	3 [3.3]
Erosion	1 [2.0]		1 [2.0]	
Fibrosis				1 [3.0]
Inflammation, Chronic Active	1 [3.0]	2 [2.5]		
Perforation			1	
Ulcer	6 [3.3]	6 [3.3]	8 [3.8]	3 [3.7]
Epithelium, Hyperplasia	8 [2.5]	6 [2.8]	8 [2.9]	5 [2.4]

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Stomach, Glandular	(50)	(50)	(50)	(50)
Cyst	1			1
Edema	1 [3.0]	3 [2.3]	2 [2.0]	1 [2.0]
Erosion	7 [1.4]	5 [2.2]	6 [2.3]	4 [1.5]
Inflammation, Chronic Active	1 [4.0]			
Mineralization		1 [3.0]		
Ulcer	4 [3.0]	3 [2.3]	1 [2.0]	1 [2.0]
Epithelium, Hyperplasia				1 [3.0]
Glands, Hyperplasia	1 [4.0]	2 [2.5]		3 [2.3]
Tongue	(1)	(3)	(4)	(1)
Epithelium, Hyperplasia		2 [2.0]	1 [1.0]	1 [2.0]

## CARDIOVASCULAR SYSTEM

Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	45 [2.5]	42 [2.5]	46 [2.6]	45 [2.4]
Inflammation, Chronic	1 [3.0]		1 [2.0]	
Thrombosis	5 [2.4]	8 [3.4]	3 [3.0]	3 [3.3]

## ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	25	21	23	26
Atrophy		1 [4.0]	1 [3.0]	
Degeneration, Fatty	30 [1.7]	23 [1.7]	20 [2.3]	25 [1.6]
Hyperplasia, Focal	12 [1.3]	3 [1.0]	4 [2.3]	6 [2.0]
Hypertrophy, Focal	7 [1.4]	11 [1.7]	6 [1.8]	6 [1.8]
Necrosis		1 [4.0]		
Adrenal Medulla	(49)	(50)	(50)	(50)
Hyperplasia	22 [1.8]	17 [1.8]	11 [1.3]	20 [1.9]
Islets, Pancreatic	(49)	(50)	(49)	(50)
Hyperplasia	4 [1.5]	4 [1.3]	6 [1.7]	2 [1.0]
Parathyroid Gland	(49)	(50)	(47)	(47)
Hyperplasia		1 [2.0]		
Pituitary Gland	(50)	(49)	(50)	(50)

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Pigmentation		1 [3.0]	2 [3.5]	
Pars Distalis, Angiectasis	2 [1.5]	1 [2.0]		6 [2.5]
Pars Distalis, Atrophy		1 [3.0]		
Pars Distalis, Cyst	2	2	3	
Pars Distalis, Cytoplasmic Alteration, Focal		1 [3.0]	1 [2.0]	
Pars Distalis, Hyperplasia	1 [1.0]			2 [2.0]
Pars Distalis, Hyperplasia, Focal	9 [2.3]	9 [2.1]	5 [2.4]	10 [1.9]
Pars Intermedia, Angiectasis	4 [2.3]	1 [2.0]		3 [2.3]
Pars Intermedia, Cyst	1	7		3
Pars Intermedia, Hyperplasia, Focal			1 [2.0]	
Pars Nervosa, Infiltration Cellular, Mixed Cell	2 [2.0]			
Thyroid Gland	(46)	(45)	(43)	(49)
Ultimobranchial Cyst			1 [3.0]	1 [3.0]
C-cell, Hyperplasia	11 [1.3]	9 [1.2]	13 [1.6]	6 [1.2]
Follicle, Cyst	3	3	1	
Follicle, Degeneration, Focal			1 [2.0]	1 [2.0]
Follicular Cell, Hyperplasia	1 [2.0]			

## GENERAL BODY SYSTEM

Tissue NOS	(0)	(0)	(0)	(1)
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## GENITAL SYSTEM

Coagulating Gland	(0)	(1)	(0)	(1)
Cyst				1
Inflammation, Chronic		1 [3.0]		
Epididymis	(50)	(50)	(50)	(50)
Granuloma Sperm			1 [3.0]	
Inflammation, Chronic	3 [2.0]	4 [2.3]	3 [2.0]	
Preputial Gland	(50)	(50)	(49)	(50)
Cyst		4		
Inflammation, Chronic	14 [2.4]	19 [2.2]	18 [2.1]	13 [2.2]
Prostate	(50)	(50)	(50)	(50)
Hyperplasia				1 [4.0]

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Inflammation, Chronic Epithelium, Hyperplasia	33 [2.5] 3 [1.3]	42 [2.1] 9 [1.3]	39 [2.3] 4 [1.5]	42 [2.4] 5 [1.0]
Seminal Vesicle Degeneration	(50)	(50)	(50)	(50) 1 [3.0]
Fibrosis	1 [3.0]			
Inflammation Inflammation, Chronic			1 [3.0] 2 [2.5]	
Testes	(50)	(50)	(50)	(50)
Artery, Inflammation, Chronic	1 [2.0]	2 [1.0]		1 [2.0]
Germinal Epithelium, Atrophy	30 [2.1]	35 [2.4]	27 [2.3]	36 [2.1]
Interstitial Cell, Hyperplasia	6 [1.3]	13 [1.6]	8 [1.6]	7 [1.3]

## HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia	2 [2.5]	7 [2.9]	10 [2.5]	3 [3.0]
Myelofibrosis	2 [2.5]	2 [2.5]	1 [3.0]	1 [3.0]
Thrombosis		1 [4.0]		
Lymph Node	(25)	(30)	(21)	(26)
Deep Cervical, Ectasia			1 [3.0]	
Deep Cervical, Hyperplasia, Lymphoid	1 [2.0]		3 [2.7]	
Mediastinal, Ectasia	2 [3.0]	6 [2.8]	3 [3.0]	2 [3.5]
Mediastinal, Hemorrhage	3 [2.3]	9 [1.9]	8 [2.4]	4 [2.3]
Mediastinal, Hyperplasia, Lymphoid	2 [2.5]	8 [2.8]	7 [2.7]	6 [2.8]
Mediastinal, Pigmentation	1 [2.0]	3 [2.3]	3 [2.7]	1 [2.0]
Pancreatic, Ectasia	3 [4.0]	3 [3.3]	2 [3.5]	5 [3.4]
Pancreatic, Hemorrhage		3 [1.3]	2 [2.5]	
Pancreatic, Hyperplasia, Histiocytic		1 [3.0]		
Pancreatic, Hyperplasia, Lymphoid		2 [2.5]		2 [2.0]
Pancreatic, Pigmentation		2 [3.0]	1 [2.0]	
Lymph Node, Mandibular	(3)	(1)	(3)	(4)
Ectasia	1 [3.0]		1 [4.0]	1 [2.0]
Hyperplasia, Lymphoid	1 [2.0]			1 [2.0]
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Atrophy		2 [2.5]		

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Ectasia	5 [2.2]	2 [2.0]	3 [2.0]	5 [2.2]
Hemorrhage	4 [1.3]	3 [1.3]	4 [1.8]	8 [1.5]
Hyperplasia, Histiocytic		1 [3.0]		
Hyperplasia, Lymphoid	3 [2.0]	12 [2.2]	7 [2.3]	11 [2.0]
Pigmentation	2 [3.0]	1 [3.0]	1 [3.0]	
Spleen	(50)	(50)	(50)	(50)
Accessory Spleen	1	1		1
Fibrosis	3 [2.3]		3 [3.0]	3 [2.3]
Hematopoietic Cell Proliferation	20 [1.9]	21 [1.7]	24 [1.8]	19 [1.9]
Hemorrhage	1 [4.0]		1 [4.0]	1 [4.0]
Necrosis	3 [3.0]	2 [4.0]	2 [3.5]	2 [3.5]
Pigmentation		3 [3.0]	6 [3.0]	3 [3.0]
Lymphoid Follicle, Atrophy		1 [3.0]	1 [2.0]	
Lymphoid Follicle, Hyperplasia	1 [2.0]	1 [3.0]	2 [2.0]	
Thymus	(50)	(50)	(46)	(49)
Cyst	1			
Inflammation, Chronic			1 [4.0]	

## INTEGUMENTARY SYSTEM

Mammary Gland	(48)	(49)	(48)	(49)
Hyperplasia	32 [2.9]	33 [3.0]	30 [3.1]	38 [2.8]
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	1	1		1
Hemorrhage	1 [2.0]			
Hyperkeratosis				1 [2.0]
Inflammation, Suppurative			1 [4.0]	
Inflammation, Acute	1 [2.0]			
Inflammation, Chronic		1 [4.0]	2 [3.0]	2 [3.5]
Ulcer	15 [3.5]	12 [3.8]	17 [3.4]	22 [3.9]
Control, Hyperkeratosis	5 [1.0]	1 [1.0]	5 [1.0]	1 [1.0]
Control Epidermis, Hyperplasia	2 [1.0]	4 [1.0]	3 [1.3]	5 [1.2]
Epidermis, Hyperplasia	15 [3.4]	14 [3.1]	18 [3.3]	24 [3.5]
Epidermis, Site Of Application, Hyperplasia		3 [1.0]	3 [1.0]	29 [1.0]
Site Of Application, Hyperkeratosis	20 [1.1]	13 [1.0]	33 [1.2]	47 [2.4]

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Species/Strain: RATS/F 344/N

Lab: SRI

FISCHER 344 RATS MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
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Site Of Application, Inflammation, Chronic				1 [2.0]
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## MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Fibrous Osteodystrophy		1 [3.0]		
Femur, Osteopetrosis			1 [4.0]	
Skeletal Muscle	(1)	(3)	(2)	(1)
Atrophy			1 [1.0]	

## NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Compression	17 [2.9]	19 [2.7]	20 [2.9]	18 [2.9]
Fungus			1	
Hemorrhage		4 [1.8]	2 [1.5]	
Necrosis	2 [2.0]	1 [1.0]		
Pigmentation			1 [1.0]	
Perivascular, Inflammation, Pyogranulomatous			1 [2.0]	
Spinal Cord	(7)	(4)	(4)	(3)

## RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Edema		3 [2.0]		
Foreign Body			1	1
Hemorrhage	2 [2.0]	2 [1.5]	1 [1.0]	1 [1.0]
Infiltration Cellular, Histiocyte	14 [1.4]	15 [1.4]	17 [1.2]	22 [1.2]
Inflammation, Granulomatous			1 [2.0]	
Inflammation, Chronic	4 [1.0]	13 [1.3]	7 [1.1]	9 [1.3]
Metaplasia, Osseous		2 [1.0]	2 [2.0]	4 [1.0]
Alveolar Epithelium, Hyperplasia			4 [2.0]	8 [1.8]
Nose	(50)	(49)	(50)	(50)
Foreign Body	23	21	21	24

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Fungus	2	9	11	12
Inflammation, Chronic	25 [1.6]	24 [2.0]	31 [1.7]	30 [2.1]
Olfactory Epithelium, Metaplasia, Respiratory	7 [1.3]	13 [1.3]	6 [1.8]	12 [1.5]
Respiratory Epithelium, Hyperplasia	19 [1.4]	18 [1.9]	18 [1.7]	23 [2.0]
Respiratory Epithelium, Metaplasia, Respiratory				1 [2.0]
Respiratory Epithelium, Metaplasia, Squamous Turbinate, Necrosis	3 [2.3] 1 [2.0]	7 [2.1]	15 [2.3]	13 [2.1]

## SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(50)
Cataract	1 [3.0]		1 [3.0]	2 [2.0]
Inflammation, Acute		1 [3.0]		
Inflammation, Chronic			1 [3.0]	
Cornea, Hyperplasia			1 [2.0]	
Retina, Degeneration	3 [2.3]		3 [3.3]	6 [2.5]
Harderian Gland	(50)	(50)	(50)	(50)
Atrophy		1 [2.0]		
Hyperplasia, Focal	1 [1.0]		1 [1.0]	1 [2.0]
Inflammation, Chronic	1 [4.0]	2 [3.0]	1 [2.0]	
Zymbal's Gland	(1)	(1)	(2)	(1)

## URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Cyst		2	2	
Glomerulosclerosis			1 [3.0]	
Hydronephrosis			1 [2.0]	
Infarct	1 [2.0]			
Inflammation, Suppurative		1 [1.0]		3 [1.0]
Inflammation, Chronic	19 [2.5]	14 [2.4]	16 [2.4]	16 [2.3]
Nephropathy	44 [2.7]	47 [2.2]	46 [2.5]	47 [2.2]
Papilla, Necrosis			1 [3.0]	
Renal Tubule, Dilatation			1 [3.0]	1 [3.0]

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Renal Tubule, Hyperplasia				1 [2.0]
Renal Tubule, Necrosis	1 [4.0]	1 [1.0]		
Renal Tubule, Pigmentation				1 [2.0]
Transitional Epithelium, Hyperplasia				1 [3.0]
Urethra	(0)	(1)	(1)	(0)
Angiectasis			1 [3.0]	
Urinary Bladder	(50)	(50)	(50)	(50)
Hemorrhage		1 [2.0]	1 [4.0]	
Inflammation, Suppurative			1 [3.0]	
Inflammation, Chronic		1 [2.0]		
Transitional Epithelium, Hyperplasia		1 [2.0]		1 [2.0]

\*\*\* END OF MALE \*\*\*

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Kupffer Cell, Hyperplasia	1 [3.0]	1 [3.0]		1 [2.0]
Kupffer Cell, Pigmentation		1 [2.0]		
Mesentery	(23)	(18)	(23)	(25)
Accessory Spleen			4	3
Fibrosis	1 [2.0]			
Hemorrhage	1 [3.0]			
Fat, Necrosis	22 [3.0]	17 [2.9]	21 [2.9]	20 [3.0]
Pancreas	(49)	(50)	(50)	(49)
Atrophy	14 [1.9]	8 [1.5]	13 [1.3]	20 [1.5]
Cyst	13	16	15	30
Necrosis			1 [3.0]	
Acinus, Cytoplasmic Alteration	2 [3.5]	2 [2.0]	1 [3.0]	2 [3.5]
Acinus, Hyperplasia, Focal		1 [1.0]		
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy	3 [1.7]	2 [1.0]	2 [1.0]	2 [1.5]
Cyst	1			
Stomach, Forestomach	(50)	(50)	(50)	(50)
Edema	3 [3.0]	5 [2.6]	2 [3.0]	1 [4.0]
Hyperplasia		1 [2.0]		
Inflammation, Chronic Active	3 [3.0]	2 [3.0]	2 [2.5]	
Perforation				1
Ulcer	4 [3.8]	8 [3.5]	3 [3.0]	4 [3.5]
Epithelium, Hyperplasia	9 [2.7]	3 [3.3]	5 [3.2]	7 [2.6]
Stomach, Glandular	(50)	(50)	(50)	(50)
Edema	1 [2.0]	2 [2.0]		1 [3.0]
Erosion	2 [2.0]	4 [2.0]	3 [1.7]	5 [2.0]
Ulcer	1 [3.0]	1 [1.0]	1 [1.0]	1 [1.0]
Tongue	(0)	(0)	(1)	(3)
Epithelium, Hyperplasia			1 [2.0]	2 [1.5]

**CARDIOVASCULAR SYSTEM**

Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	36 [2.0]	35 [1.9]	35 [1.7]	35 [2.0]
Thrombosis		3 [3.0]		1 [4.0]

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Test Type: CHRONIC

Methyl trans-styryl ketone

Time Report Requested: 12:57:38

Route: SKIN APPLICATION

CAS Number: 1896-62-4

First Dose M/F: 04/05/04 / 04/05/04

Species/Strain: RATS/F 344/N

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
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## ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	10	19	16	24
Angiectasis			1 [3.0]	
Atrophy		1 [3.0]		
Degeneration, Fatty	17 [2.3]	22 [2.1]	25 [2.3]	16 [2.2]
Hyperplasia, Focal	5 [1.4]	7 [2.0]	8 [2.1]	5 [1.6]
Hypertrophy, Focal	12 [1.9]	11 [1.9]	10 [1.9]	6 [2.2]
Necrosis			1 [2.0]	
Adrenal Medulla	(49)	(49)	(47)	(49)
Hyperplasia	5 [1.8]	3 [1.7]		3 [1.0]
Islets, Pancreatic	(49)	(50)	(50)	(49)
Hyperplasia		2 [1.5]		
Parathyroid Gland	(50)	(50)	(49)	(44)
Pituitary Gland	(50)	(50)	(50)	(50)
Pigmentation			2 [2.0]	
Pars Distalis, Angiectasis	7 [2.4]	2 [3.5]	9 [2.9]	8 [2.6]
Pars Distalis, Cyst	22	14	20	16
Pars Distalis, Cytoplasmic Alteration, Focal		1 [3.0]		1 [2.0]
Pars Distalis, Hyperplasia, Focal	10 [1.8]	4 [2.3]	11 [2.1]	9 [2.0]
Pars Distalis, Pigmentation				1 [2.0]
Pars Intermedia, Angiectasis	1 [3.0]	1 [2.0]	2 [2.5]	2 [2.5]
Pars Intermedia, Cyst	1	2	1	4
Pars Intermedia, Hyperplasia, Focal	1 [2.0]		1 [2.0]	
Thyroid Gland	(50)	(50)	(49)	(50)
Ultimobranchial Cyst	1 [3.0]		3 [3.0]	1 [3.0]
C-cell, Hyperplasia	12 [1.3]	10 [1.4]	5 [2.0]	10 [1.3]
Follicle, Cyst		2		
Follicular Cell, Hyperplasia		1 [1.0]		

## GENERAL BODY SYSTEM

Tissue NOS	(1)	(1)	(0)	(0)
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Test Type: CHRONIC

Methyl trans-styryl ketone

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Species/Strain: RATS/F 344/N

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
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## GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(50)	(50)
Cyst	6	2	1	3
Hyperplasia	3 [1.3]	1 [1.0]	2 [1.5]	3 [2.0]
Inflammation, Chronic	9 [2.3]	5 [2.6]	5 [3.2]	5 [2.8]
Ovary	(50)	(50)	(48)	(50)
Cyst	10	7	2	5
Interstitial Cell, Hyperplasia	1 [3.0]			
Uterus	(50)	(50)	(49)	(50)
Hyperplasia, Cystic	5 [2.6]	4 [2.8]	9 [2.0]	4 [2.5]
Vagina	(6)	(6)	(7)	(10)
Cyst		1		1

## HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(50)	(50)
Angiectasis		1 [3.0]		
Hyperplasia	3 [2.7]	6 [2.7]	4 [3.3]	6 [2.5]
Infiltration Cellular, Histiocyte	1 [2.0]	1 [2.0]		
Myelofibrosis		1 [2.0]	1 [1.0]	
Lymph Node	(16)	(13)	(14)	(12)
Bronchial, Hyperplasia, Lymphoid	1 [3.0]			
Deep Cervical, Hemorrhage		1 [2.0]		1 [4.0]
Deep Cervical, Pigmentation		1 [3.0]		
Mediastinal, Ectasia	1 [3.0]	1 [3.0]	2 [2.5]	
Mediastinal, Hemorrhage	1 [3.0]	6 [2.3]	7 [2.4]	4 [2.5]
Mediastinal, Hyperplasia, Lymphoid	5 [2.4]	5 [2.4]	3 [2.3]	4 [2.5]
Mediastinal, Pigmentation	5 [2.8]	8 [2.8]	6 [2.3]	4 [3.0]
Pancreatic, Ectasia	1 [4.0]	1 [2.0]		
Pancreatic, Hemorrhage		1 [1.0]	1 [3.0]	2 [1.5]
Pancreatic, Hyperplasia, Histiocytic		1 [3.0]		
Pancreatic, Pigmentation	1 [3.0]	2 [3.0]	1 [3.0]	
Lymph Node, Mandibular	(3)	(2)	(3)	(3)

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Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Ectasia		1 [3.0]		
Hemorrhage		1 [3.0]		
Hyperplasia, Lymphoid		1 [2.0]		
Lymph Node, Mesenteric	(50)	(49)	(50)	(50)
Atrophy	1 [2.0]		1 [2.0]	3 [2.7]
Ectasia		1 [2.0]	2 [1.5]	
Hemorrhage	4 [1.5]	5 [2.0]	9 [1.4]	8 [1.1]
Hyperplasia, Histiocytic	1 [3.0]	1 [2.0]		
Hyperplasia, Lymphoid	11 [2.3]	12 [2.2]	13 [2.1]	19 [2.2]
Pigmentation	6 [3.0]	3 [3.0]	2 [3.0]	6 [3.0]
Spleen	(50)	(50)	(50)	(50)
Congestion			1 [4.0]	
Fibrosis	1 [3.0]		1 [2.0]	1 [4.0]
Hematopoietic Cell Proliferation	33 [1.9]	34 [2.1]	29 [2.0]	29 [2.0]
Hemorrhage	1 [4.0]			2 [3.5]
Infiltration Cellular, Mixed Cell			1 [4.0]	1 [4.0]
Metaplasia, Osseous			1 [2.0]	
Necrosis	2 [4.0]	1 [4.0]		1 [4.0]
Pigmentation	15 [3.0]	12 [3.1]	10 [3.0]	15 [3.0]
Lymphoid Follicle, Atrophy				3 [3.0]
Lymphoid Follicle, Hyperplasia				2 [2.5]
Thymus	(50)	(49)	(47)	(47)
Atrophy		1 [3.0]	1 [2.0]	1 [1.0]
Cyst			2	1

## INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Hyperplasia	48 [2.9]	48 [2.7]	47 [2.6]	46 [2.7]
Inflammation, Chronic		2 [3.5]		
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion	1			
Hyperkeratosis	1 [4.0]	1 [4.0]		
Inflammation, Chronic	5 [3.2]	1 [3.0]	3 [3.0]	
Ulcer	3 [3.3]	4 [3.5]	3 [3.0]	4 [3.3]

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FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Control, Hyperkeratosis	6 [1.0]	5 [1.0]		3 [1.0]
Control, Epidermis, Hyperplasia	1 [1.0]			
Control Epidermis, Hyperplasia	5 [1.0]	4 [1.0]	3 [1.0]	5 [1.0]
Epidermis, Hyperplasia	10 [3.3]	5 [3.4]	6 [3.3]	4 [3.5]
Epidermis, Ulcer	1 [1.0]			
Epidermis, Site Of Application, Hyperplasia	1 [1.0]	1 [1.0]	5 [1.0]	39 [1.2]
Site Of Application, Hyperkeratosis	9 [1.1]	11 [1.0]	20 [1.0]	47 [2.3]

## MUSCULOSKELETAL SYSTEM

Bone	(50)	(50)	(50)	(50)
Fibrous Osteodystrophy				1 [3.0]
Femur, Osteopetrosis		2 [2.5]	1 [3.0]	
Skeletal Muscle	(1)	(1)	(1)	(0)

## NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Compression	21 [3.0]	28 [2.6]	15 [2.9]	17 [2.7]
Hemorrhage	8 [1.8]	3 [3.0]	2 [2.5]	2 [3.0]
Necrosis	1 [2.0]	3 [2.0]	1 [2.0]	2 [2.0]
Spinal Cord	(1)	(3)	(2)	(3)
Atrophy		1 [3.0]		

## RESPIRATORY SYSTEM

Lung	(50)	(50)	(50)	(50)
Edema		1 [2.0]		
Foreign Body				1
Hemorrhage	7 [2.1]	4 [1.3]	3 [1.7]	7 [1.3]
Infiltration Cellular, Histiocyte	14 [1.1]	16 [1.3]	19 [1.4]	22 [1.4]
Inflammation, Chronic	10 [1.2]	8 [1.1]	12 [1.3]	7 [1.0]
Metaplasia, Osseous	1 [1.0]	3 [1.0]		3 [1.0]
Pigmentation	4 [1.5]	4 [2.0]	8 [1.5]	4 [1.5]

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FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Alveolar Epithelium, Hyperplasia	5 [1.2]	1 [2.0]	6 [2.3]	4 [1.5]
Bronchiole, Hyperplasia				1 [2.0]
Serosa, Hyperplasia	1 [2.0]			1 [1.0]
Nose	(48)	(50)	(50)	(50)
Foreign Body	2	1	5	3
Inflammation, Chronic	8 [1.1]	1 [2.0]	4 [2.5]	9 [1.0]
Olfactory Epithelium, Metaplasia, Respiratory	2 [1.0]			2 [1.5]
Respiratory Epithelium, Hyperplasia	5 [1.2]		3 [2.3]	4 [1.3]
Respiratory Epithelium, Metaplasia, Squamous	1 [1.0]		2 [3.0]	

## SPECIAL SENSES SYSTEM

Eye	(50)	(50)	(50)	(49)
Cataract	2 [2.5]	3 [2.3]	3 [2.7]	3 [3.0]
Inflammation, Acute		1 [3.0]		
Inflammation, Chronic Active		1 [2.0]		
Retina, Degeneration	4 [3.0]	4 [3.3]	4 [2.5]	4 [3.5]
Harderian Gland	(50)	(50)	(50)	(50)
Atrophy	1 [2.0]	1 [2.0]	1 [2.0]	
Hyperplasia, Focal	2 [1.0]	2 [1.0]		
Inflammation, Chronic		1 [2.0]	1 [2.0]	1 [3.0]

## URINARY SYSTEM

Kidney	(50)	(50)	(50)	(50)
Cyst		1	2	1
Infarct			2 [2.0]	
Inflammation, Chronic	4 [2.3]	6 [2.0]	6 [2.2]	3 [2.0]
Inflammation, Chronic Active		1 [3.0]		
Metaplasia, Lipocyte	1 [3.0]			
Nephropathy	45 [1.8]	41 [2.0]	43 [1.8]	40 [2.0]
Renal Tubule, Accumulation, Hyaline Droplet	1 [3.0]	2 [2.0]	3 [3.0]	2 [2.5]
Renal Tubule, Dilatation	1 [3.0]			1 [2.0]
Renal Tubule, Hyperplasia				1 [1.0]
Renal Tubule, Pigmentation	1 [2.0]	1 [3.0]	2 [2.0]	2 [2.5]

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FISCHER 344 RATS FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Transitional Epithelium, Hyperplasia	1 [2.0]		1 [3.0]	
Urinary Bladder	(50)	(50)	(49)	(50)
Hemorrhage	1 [3.0]			1 [3.0]
Metaplasia, Squamous		1 [3.0]		

\*\*\* END OF REPORT \*\*\*

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