

TDMS No. 05174 - 05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 08:44:01
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

DAY ON TEST	ANIMAL ID																								* TOTALS	
	6	0	7	0	7	5	6	7	7	7	7	5	7	7	7	7	5	7	7	7	7	6	5	7		
	3	6	3	1	3	8	9	0	2	3	3	6	3	2	3	3	3	3	3	2	2	3	3	9	3	
	1	0	0	9	1	6	0	2	9	1	1	9	0	9	1	0	4	0	0	9	9	0	0	9	1	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5000 PPM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation					1	1	1	2		2					1		1	1	2		2	1				19 1.3
Goblet Cell, Hyperplasia		1	1	1	1		2	1	2	1	1	1	2	1		1	1	1	1	1	1	1	1	1	1	42 1.2
Respiratory Epithelium, Hyperplasia	1	1	1	1			1		1	1	1		2	1			1		1			1	1	1	1	31 1.0
Respiratory Epithelium, Metaplasia, Squamous		1		1								1														8 1.0
Vein, Thrombosis																										2 3.0

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation															1											1 1.0

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Sclera, Metaplasia, Osseous	2						2	1	1		1		2		1		1	1		2		1	2	2		28 1.4
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy															1	1										2 1.0
Inflammation						1																1				5 1.0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hydronephrosis		4																								1 4.0
Infarct																										1 3.0
Necrosis																										1 3.0
Nephropathy	1		2		2	1	2	2	2	2	3	1	2	1	1	2	1	2	1	2	1	2	1	2	2	46 1.7
Renal Tubule, Inflammation																										1 1.0

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		6	0	7	0	7	5	6	7	7	7	7	5	7	7	7	7	5	7	7	7	7	6	5	7	
DAY ON TEST		3	6	3	1	3	8	9	0	2	3	3	6	3	2	3	3	3	3	3	2	2	3	3	9	3
		1	0	0	9	1	6	0	2	9	1	1	9	0	9	1	0	4	0	0	9	9	0	0	9	1
FISCHER 344 RATS MALE ANIMAL ID	5000 PPM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
		* TOTALS																								
Transitional Epithelium, Hyperplasia																										2 2.0
Ureter Cyst																										1 4.0
Urinary Bladder Inflammation																										50 1 2.0

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		3	8	3	1	2	3	2	3	3	2	2	3	3	2	2	3	8	3	2	9	3	2	8	3	2
		0	3	0	3	9	0	9	1	0	9	9	1	1	9	9	1	8	0	9	0	1	9	9	0	4
FISCHER 344 RATS MALE	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	15000 PPM	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

males
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	1
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis	1		1			1		2							1	1							2		
Basophilic Focus								X		X									X			X			
Clear Cell Focus	X		X			X		X	X	X		X	X	X	X				X	X	X			X	
Degeneration, Cystic	1						1							1											1
Eosinophilic Focus	X	X	X			X		X	X	X	X		X		X	X				X	X		X	X	X
Fatty Change		1			2	1						1						1							
Fibrosis	1	1			1	1			1	1	1	1		1	1			1	1			1		1	1
Hepatodiaphragmatic Nodule									X								X								
Inflammation	1	2	1			1		1	1	1	1		1	1	1	1			1	1	1	1	1	1	1

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	3	8	3	1	2	3	2	3	3	2	2	3	3	2	2	3	8	3	2	9	3	2	8	3	2
	0	3	0	3	9	0	9	1	0	9	9	1	1	9	9	1	8	0	9	0	1	9	9	0	4
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15000 PPM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

Mixed Cell Focus																											
Necrosis																											
Bile Duct, Hyperplasia	2	1	1	2	1	1	2	2	1	2	2	3	2	1	1	2	3	2	2		1	2	2	2	2	2	
Centrilobular, Degeneration				3													3										
Centrilobular, Necrosis																											
Mesentery																											
Fat, Necrosis																											
Oral Mucosa																											
Inflammation																											
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Atrophy		1	2		2											1	1									2	
Acinus, Hyperplasia																											
Duct, Cyst					1								2									2					
Salivary Glands	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																											
Epithelium, Hyperplasia																											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation				2																							

CARDIOVASCULAR SYSTEM

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	3	8	3	1	2	3	2	3	3	2	2	3	3	2	2	3	8	3	2	9	3	2	8	3	2
	0	3	0	3	9	0	9	1	0	9	9	1	1	9	9	1	8	0	9	0	1	9	9	0	4
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15000 PPM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2	2	2	1	1	2	2	2	1	2		1	2	2	2	2		1	1	2	2	2		2	2

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	1								2						2				2			1		
Vacuolization Cytoplasmic	1			2		1	1			1		1	1	1			2		1		1			
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				2					1														1	3
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia		2								2														1
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis	1	2	1													2								
Cyst							1					2							2					
Pars Distalis, Hyperplasia			2	2	1									1									1	1
Pars Intermedia, Hyperplasia					1																			
Thyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia									1				1										1	

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DAY ON TEST	3	8	3	1	2	3	2	3	3	2	2	3	3	2	2	3	8	3	2	9	3	2	8	3	2
	0	3	0	3	9	0	9	1	0	9	9	1	1	9	9	1	8	0	9	0	1	9	9	0	4
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15000 PPM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males
(cont...)

Follicular Cell, Hyperplasia 2 1 2 2

GENERAL BODY SYSTEM

Tissue NOS +

GENITAL SYSTEM

Epididymis Inflammation +

Preputial Gland Inflammation 1 2 2 1 1 2 2 1 2 1 1 1 2 1 1 1 2 2 1 1 1 2 2 M

Prostate Hyperplasia Inflammation 1 2 2 1 2 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1

Seminal Vesicle Hyperplasia Inflammation + 2

Testes Interstitial Cell, Hyperplasia + 2

HEMATOPOIETIC SYSTEM

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		0	3	0	3	9	0	9	1	0	9	9	1	1	9	9	1	8	0	9	0	1	9	9	0
FISCHER 344 RATS MALE 15000 PPM	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	

males
(cont...)

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosis				3																			
Hyperplasia																			2	3			2
Lymph Node																			+				+
Mediastinal, Ectasia																							2
Pancreatic, Pigmentation, Hemosiderin																							
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid				2																			
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																							
Fibrosis									1														
Hematopoietic Cell Proliferation											1			1					2	3	1		1
Infiltration Cellular, Histiocyte																							1
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	4	4	4	4	3	3	4	4	3	4	2	4	4	3	4	4	4	4	4	4	4	3	4
Cyst											1												
Ectopic Parathyroid Gland																							1

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia															1	2						1	

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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05174 - 05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 08:44:01
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

DAY ON TEST		7	6	7	6	7	7	7	7	7	7	7	7	7	7	6	7	7	5	7	7	5	7	7	
		3	8	3	1	2	3	2	3	3	2	2	3	3	2	2	3	8	3	2	9	3	2	8	3
		0	3	0	3	9	0	9	1	0	9	9	1	1	9	9	1	8	0	9	0	1	9	9	0
FISCHER 344 RATS MALE	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	15000 PPM	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3		
		4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

males
(cont...)

Skin +

MUSCULOSKELETAL SYSTEM

Bone +
 Hyperostosis
 Joint, Inflammation

NERVOUS SYSTEM

Brain +
 Hydrocephalus 2
 Hypothalamus, Compression 3

RESPIRATORY SYSTEM

Lung +
 Congestion
 Inflammation 1 2 1
 Metaplasia, Osseous
 Alveolar Epithelium, Hyperplasia 2 1

Nose +
 Hyperplasia 2
 Inflammation 1 2 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 Goblet Cell, Hyperplasia 2 1 2 1 2 2 2 1 2 2 2 1 2 1 2 1 2 2 1 1 1 1 1
 Respiratory Epithelium, Hyperplasia 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 2 1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 55

TDMS No. 05174 - 05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 08:44:01
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

DAY ON TEST		7	6	7	6	7	7	7	7	7	7	7	7	7	7	6	7	7	5	7	7	5	7	7		
		3	8	3	1	2	3	2	3	3	2	2	3	3	2	2	3	8	3	2	9	3	2	8	3	2
		0	3	0	3	9	0	9	1	0	9	9	1	1	9	9	1	8	0	9	0	1	9	9	0	4
FISCHER 344 RATS MALE	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	15000 PPM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

males (cont...)

Respiratory Epithelium, Metaplasia, Squamous Vein, Thrombosis	2		1	1	1				2	2	2	1	2	1	1			1	2	2	1	2	2	2	3	1
Trachea	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cataract																										
Retina, Atrophy																										
Sclera, Metaplasia, Osseous					1		2		1	2	1							1	2							
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy							2																			
Inflammation																										
Zymbal's Gland																										

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Necrosis			2						3				1													
Nephropathy	4	1	2	2	3	3	2	3	2	2	1	2	2	1	3	4	1	3	3	1	3	3	1	2	2	
Renal Tubule, Hyperplasia																										
Renal Tubule, Inflammation							1			1													1			
Renal Tubule, Mineralization			2																							
Transitional Epithelium, Hyperplasia	2					2							1		2	2						1				

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TDMS No. 05174 - 05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Date Report Reqsted: 04/10/2006
 Time Report Reqsted: 08:44:01
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

		7	6	7	6	7	7	7	7	7	7	7	7	7	7	6	7	7	5	7	7	5	7	7		
DAY ON TEST		3	8	3	1	2	3	2	3	3	2	2	3	3	2	2	3	8	3	2	9	3	2	8	3	2
		0	3	0	3	9	0	9	1	0	9	9	1	1	9	9	1	8	0	9	0	1	9	9	0	4
FISCHER 344 RATS MALE 15000 PPM	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

males
(cont...)

TDMS No. 05174 - 05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 08:44:01
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

	6	7	7	6	7	6	2	7	7	7	6	7	7	7	4	7	5	7	6	7	5	6	7	7	3
DAY ON TEST	8	3	3	3	3	8	9	2	3	2	2	3	2	3	2	2	7	3	6	3	8	6	3	3	9
	0	0	0	9	0	8	9	5	1	9	5	0	9	1	2	5	6	1	7	0	6	7	0	0	6
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15000 PPM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	* TOTALS																								

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Cecum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																								2 1.0		
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																								2 2.0		
Intestine Small, Duodenum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Ileum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Jejunum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis		1	1						1					1	1	1								1		14 1.1
Basophilic Focus		X						X		X																7
Clear Cell Focus			X	X			X		X	X		X	X	X				X		X	X		X		X	27
Degeneration, Cystic		1				2		1				1	1													9 1.1
Eosinophilic Focus				X				X	X	X		X	X						X				X			23
Fatty Change					1	2													2							8 1.4
Fibrosis		1	1		1	1		1		1		1	1	1		1	1	1	1	1	1		1	1		34 1.0
Hepatodiaphragmatic Nodule																			X							3
Inflammation	1	1	1	1	1		1	1	1	1		1	1	1	1		1		1	1	1		1	2	1	38 1.1

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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 05174 - 05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 08:44:01
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

DAY ON TEST	6	7	7	6	7	6	2	7	7	7	6	7	7	7	4	7	5	7	6	7	5	6	7	7	3
	8	3	3	3	3	8	9	2	3	2	2	3	2	3	2	2	7	3	6	3	8	6	3	3	9
	0	0	0	9	0	8	9	5	1	9	5	0	9	1	2	5	6	1	7	0	6	7	0	0	6
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15000 PPM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	* TOTALS																								

Follicular Cell, Hyperplasia 4 1.8

GENERAL BODY SYSTEM

Tissue NOS 1

GENITAL SYSTEM

Epididymis Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50																					
																								2	1 2.0																					
Preputial Gland Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49																					
																								2	2	2	1	1	2	1	2	2	2	2	2	1	1	2	2	1	2	1	2	1	44	
																								2	1.5																					
Prostate Hyperplasia Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50																					
																								1	1	2	2	1	1	2	1	2	1	2	2	2	1	1	2	2	2	1	1	19		
																								1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	19
																								2	1.5																					
Seminal Vesicle Hyperplasia Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50																					
																								2	1 2.0																					
																								2	1 2.0																					
Testes Interstitial Cell, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50																					
																								2	2 2.0																					

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 05174 - 05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 08:44:01
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

DAY ON TEST		6	7	7	6	7	6	2	7	7	7	6	7	7	7	4	7	5	7	6	7	5	6	7	7	3
		8	3	3	3	3	8	9	2	3	2	2	3	2	3	2	2	7	3	6	3	8	6	3	3	9
		0	0	0	9	0	8	9	5	1	9	5	0	9	1	2	5	6	1	7	0	6	7	0	0	6
FISCHER 344 RATS MALE 15000 PPM	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
		* TOTALS																								

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibrosis																										1 3.0
Hyperplasia				2					2											2	2					7 2.1
Lymph Node													+							+						4
Mediastinal, Ectasia																										1 2.0
Pancreatic, Pigmentation, Hemosiderin													2													1 2.0
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia, Lymphoid																										1 2.0
Spleen	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Atrophy					2																				2	2 2.0
Fibrosis																										1 1.0
Hematopoietic Cell Proliferation			1	2			1		1			1						1		3		1	1		18 1.3	
Infiltration Cellular, Histiocyte					2																					1 2.0
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	M	+	48
Atrophy	4	4	4	4	4	4	1	3	4	3	4	4	4	4	4	4	4	4	3	3	3	4			4	47 3.7
Cyst																										1 1.0
Ectopic Parathyroid Gland																										1 1.0

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	49
Hyperplasia					1											2	2									8 1.4

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Page 62

TDMS No. 05174 - 05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Date Report Requested: 04/10/2006
 Time Report Requested: 08:44:01
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

DAY ON TEST		6	7	7	6	7	6	2	7	7	7	6	7	7	7	4	7	5	7	6	7	5	6	7	7	3
		8	3	3	3	3	8	9	2	3	2	2	3	2	3	2	2	7	3	6	3	8	6	3	3	9
		0	0	0	9	0	8	9	5	1	9	5	0	9	1	2	5	6	1	7	0	6	7	0	0	6
FISCHER 344 RATS MALE 15000 PPM	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
		* TOTALS																								

Skin + **50**

MUSCULOSKELETAL SYSTEM

Bone	+ +	50
Hyperostosis		1 2.0
Joint, Inflammation	2 1 2	3 1.7

NERVOUS SYSTEM

Brain	+ +	50
Hydrocephalus	3 3	4 2.8
Hypothalamus, Compression	3	4 3.0

RESPIRATORY SYSTEM

Lung	+ +	50
Congestion	2	1 2.0
Inflammation	2 1 1 1 1 3 1 1 2 1 1 1	24 1.3
Metaplasia, Osseous	1	1 1.0
Alveolar Epithelium, Hyperplasia	1 2	4 1.5
Nose	+ +	50
Hyperplasia		1 2.0
Inflammation	1 1 2 2 2 2 1 1 1 2 2 1 2 1 2 1 2 2 2 2 2 2 1	28 1.4
Goblet Cell, Hyperplasia	1 2 1 1 2 2 1 2 2 1 2 1 1 1 2 2 2 2 2 2 2 2 1	47 1.6
Respiratory Epithelium, Hyperplasia	1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 2 2 1 1 1	47 1.2

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 Page 63

TDMS No. 05174 - 05
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 CRESOLS
 CAS Number: 1319-77-3
 Pathologist: BOYCE, J. - JOKINEN, M. - RYAN, M.

Date Report Reqsted: 04/10/2006
 Time Report Reqsted: 08:44:01
 First Dose M/F: 08/05/02 / NA
 Lab: BAT

	6	7	7	6	7	6	2	7	7	7	6	7	7	7	4	7	5	7	6	7	5	6	7	7	3
DAY ON TEST	8	3	3	3	3	8	9	2	3	2	2	3	2	3	2	2	7	3	6	3	8	6	3	3	9
	0	0	0	9	0	8	9	5	1	9	5	0	9	1	2	5	6	1	7	0	6	7	0	0	6
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15000 PPM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	* TOTALS																								
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

*** END OF MALE DATA ***

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked