

Experiment Number: 10119 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Furan
CAS Number: 110-00-9

Date Report Requested: 06/03/2014
Time Report Requested: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

104 Week

NTP Study Number: C10119

Lock Date: 06/02/2014

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups:	Include 001 0 Vehicle 104 wk	Include 002 0.02 Furan 104wk	Include 003 0.044 Furan104wk
	Include 004 0.092 Furan104wk	Include 005 0.2 Furan 104 wk	Include 006 0.44 Furan 104wk
	Include 007 0.92 Furan 104wk	Include 008 2 Furan 104 wk	

Study Gender: Male

TDMSE Version: 3.0.2.0_001

PWG Approval Date: NONE

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FISCHER 344 RATS-NCTR RATS MALE 0 Vehicle 104 wk	DAY ON TEST																				ANIMAL ID	males (cont...)		
	0729	0729	0668	0779	0779	0668	0779	0779	0668	0668	0668	0566	0668	0668	0668	0668	0566	0668	0178	0779			0668	0779
	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	2	3	3	0	1	1	2	2	3	4	5	6	6	5	6	7	8	1	1	2	1	1
	1	2	1	1	2	1	1	2	2	2	1	2	1	1	2	1	1	2	2	2	2	1	2	1

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lumen, Dilatation																							
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	A	+	+
Edema																							
Necrosis																							
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	+	+	+
Inflammation, Chronic Active																							
Mucosa, Hyperplasia																3							
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	A	+	+
Necrosis																							
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	A	+	+
Edema																							
Infiltration Cellular, Polymorphonuclear																							
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus																							
Clear Cell Focus												X											X
Deformity				X															X				
Degeneration, Cystic																							
Eosinophilic Focus																							

* .. 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
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1-4 .. Lesion qualified as:
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FISCHER 344 RATS-NCTR RATS MALE 0 Vehicle 104 wk	DAY ON TEST																										ANIMAL ID	males (cont...)
	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		
	7	7	6	7	7	6	7	7	6	6	6	5	6	6	6	6	5	6	6	1	7	7	6	7	5	4		
	2	2	3	2	2	4	2	0	7	4	8	9	9	9	8	1	1	4	8	2	2	6	2	0	7			
	9	9	8	9	9	8	8	1	6	9	8	3	8	8	2	1	4	7	8	8	1	1	8	1	8			
	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	0	0		
	0	0	0	0	0	2	2	2	2	2	2	4	4	4	4	5	5	5	5	5	5	5	7	7	7	7		
	1	1	2	3	3	0	1	1	2	2	3	4	5	6	5	6	6	7	8	1	1	1	1	1	2	1		
	1	2	1	1	2	1	1	2	2	2	1	2	1	1	2	1	1	2	2	2	2	2	2	2	1	1		
Fibrosis																												
Granuloma		1		1	1												1	1								1		
Hepatodiaphragmatic Nodule Inflammation, Chronic Active																												
Mixed Cell Focus																				X								
Pigmentation						2																						
Polyarteritis																												
Tension Lipidosis																												
Thrombosis																												
Vacuolization Cytoplasmic											4					2			2							2		
Bile Duct, Biliary Tract, Cyst Multilocular																												
Bile Duct, Biliary Tract, Hyperplasia	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1		1	1		2	2		1	2				
Capsule, Infiltration Cellular, Polymorphonuclear																												
Capsule, Pigmentation																												
Centrilobular, Hepatocyte, Degeneration							2							2												2		
Centrilobular, Hepatocyte, Necrosis																												
Hepatocyte, Necrosis																2										3		
Oval Cell, Hyperplasia																										3		
Periportal, Vacuolization Cytoplasmic											2					2										2		
Mesentery	+		+		+		+	+												+						+		
Accessory Spleen																												
Fat, Hemorrhage				4																								
Fat, Necrosis	4				4		4	4	4								3								4			
Oral Mucosa																												
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Chronic Active																												

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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FISCHER 344 RATS-NCTR RATS MALE 0 Vehicle 104 wk	DAY ON TEST																								ANIMAL ID	males (cont...)
	0729	0729	0668	0779	0779	0668	0779	0779	0668	0668	0668	0556	0668	0668	0668	0668	0556	0668	0177	0779	0668	0779	0556	0448		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0001	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0002	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0003	
	1	1	2	3	0	2	1	1	2	2	3	4	5	6	6	5	5	6	7	8	1	1	2	2	0004	
	1	2	1	1	2	1	1	2	1	2	1	2	1	1	2	1	1	2	1	2	2	1	2	1	0005	

Necrosis

Polyarteritis

Acinar Cell, Hyperplasia

Acinus, Degeneration

Artery, Hyperplasia

2 3 1 2 2 1 2 2 3 4 4 4

Salivary Glands

Acinar Cell, Hyperplasia

+ +

Stomach, Forestomach

Edema

Fibrosis

Hyperplasia, Basal Cell

Inflammation, Chronic Active

Necrosis

Perforation

Ulcer

Epithelium, Hyperplasia

Serosa, Fibrosis

Serosa, Inflammation, Chronic Active

+
 4 2 4 3 2 4 4 3 2 3

Stomach, Glandular

Edema

Inflammation, Chronic Active

Ulcer

Mucosa, Hyperplasia

+ +

Tongue

CARDIOVASCULAR SYSTEM

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

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| DAY ON TEST | FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|--|
| | 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 | |
| 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 5 | 6 | 1 | 7 | 7 | 6 | 7 | 5 | 4 | | |
| 2 | 2 | 3 | 2 | 2 | 4 | 2 | 0 | 7 | 4 | 8 | 9 | 9 | 9 | 8 | 1 | 1 | 4 | 8 | 2 | 2 | 6 | 2 | 0 | 7 | | |
| 9 | 9 | 8 | 9 | 9 | 8 | 8 | 1 | 6 | 9 | 8 | 3 | 8 | 8 | 2 | 1 | 4 | 7 | 8 | 1 | 1 | 1 | 8 | 1 | 8 | | |
| 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 | | |
| 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | | |
| 1 | 1 | 2 | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 5 | 6 | 6 | 7 | 7 | 8 | 1 | 1 | 2 | | |
| 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | males
(cont...) | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 2 | 3 | 2 | 2 | 2 | 3 | | 2 | 4 | 2 | 3 | | 1 | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 4 | 2 | 2 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | X | | X | X | | | | | X | | | | X | | | | | | |
| Atrium, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Myocardium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Fibrosis | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | 2 | | | | | | | | | 2 | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | 2 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 4 | | 2 | | | 2 | 2 | 4 | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 4 | | 3 | | | 2 | | 2 | 1 | 2 | 2 | 1 | | | 3 | | | 2 | 2 | | | 3 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |

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| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|
| | 0
7
2
9 | 0
7
2
9 | 0
6
3
8 | 0
7
2
9 | 0
7
2
9 | 0
6
4
8 | 0
7
2
8 | 0
7
7
1 | 0
6
6
6 | 0
6
6
6 | 0
5
9
3 | 0
6
6
8 | 0
6
6
8 | 0
6
6
2 | 0
5
1
4 | 0
6
4
7 | 0
1
2
8 | 0
7
2
1 | 0
6
6
1 | 0
7
2
8 | | | 0
5
2
1 | 0
4
0
1 | 0
7
0
8 |
| Islets, Pancreatic
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland
Angiectasis
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland
Hemorrhage
Pigmentation
Pars Distalis, Angiectasis
Pars Distalis, Cyst
Pars Distalis, Hyperplasia
Pars Intermedia, Cyst
Pars Nervosa, Hyperplasia
Rathke's Cleft, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland
C-cell, Hyperplasia
Follicle, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

Peritoneum
 Tissue NOS
 Hemorrhage
 Necrosis

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|------------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| FISCHER 344 RATS-NCTR 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 Vehicle 104 wk | | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 1 | 7 | 7 | 6 | 7 | | 5 |
| ANIMAL ID | | 2 | 2 | 3 | 2 | 2 | 4 | 2 | 0 | 7 | 4 | 8 | 9 | 9 | 9 | 8 | 1 | 1 | 4 | 8 | 2 | 2 | 6 | 2 | 0 | 7 | 8 |
| | | 9 | 9 | 8 | 9 | 9 | 8 | 8 | 1 | 6 | 9 | 8 | 3 | 8 | 8 | 2 | 1 | 4 | 7 | 8 | 1 | 1 | 1 | 8 | 1 | 8 | |
| | | 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 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 |
| | | 1 | 1 | 2 | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 5 | 6 | 7 | 7 | 8 | 1 | 1 | 1 | 2 | 2 |
| | | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Exfoliated Germ Cell | 2 | | 4 | | | | | | | | | 3 | | | | | | | | | | 3 | | 3 | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypospermia | 4 | 4 | 4 | 4 | 4 | | 2 | | | | 4 | 3 | 4 | 4 | 4 | | | | 4 | 4 | 4 | 4 | 4 | 3 | | | |
| Epithelium, Degeneration | | | 3 | | 4 | 4 | | | | | 2 | | 3 | 4 | 3 | | | | 4 | 4 | 3 | | | 2 | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Abscess | | | | | | | | | | | | | | | | 4 | | 4 | | | | 4 | | | | | |
| Fibrosis | | | | | | | | 4 | | | 2 | | 2 | 3 | 3 | | | | | 3 | 2 | | 3 | 3 | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | 4 | | | | | | | | | 4 | | | | 2 | | 1 | 3 | | | | 4 | 3 | |
| Inflammation, Chronic Active | 3 | 2 | | 1 | | | 3 | 2 | 2 | 4 | 4 | 3 | 2 | | 3 | | | | | | | 1 | 4 | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Ectasia | | | | | 4 | | 2 | | 4 | | 3 | 3 | 4 | 4 | | | | | 3 | | | | | 2 | 3 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | 3 | | | | | | | | | | | | | | | | | | | 2 | 3 | | | 3 | |
| Degeneration, Cystic | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | | 1 | | | 3 | 3 | | | | | 2 | 1 | 4 | 2 | 1 | 4 | 3 | | | | | 3 | 2 | | 3 | |
| Inflammation, Chronic Active | | | | 1 | 2 | | | | | | 4 | | | | | | | | 2 | | 2 | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | | 3 | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|
| | 0729 | 0729 | 0668 | 0779 | 0779 | 0668 | 0779 | 0779 | 0668 | 0668 | 0668 | 0556 | 0668 | 0668 | 0668 | 0668 | 0556 | 0668 | 0178 | 0779 | | | 0668 | 0779 | 0556 | 0448 | 0007 |
| | 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 | 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 | 2 | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 5 | 6 | 7 | 8 | 7 | 8 | 1 | 1 | 2 | 2 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Seminal Vesicle Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | | | |
| Edema | | 3 | | 4 | 2 | | | | | | | | | | 2 | | | | | | | | | | 3 | | |
| Inflammation, Suppurative Lumen, Dilatation | | | | | | | | | 2 | | | | | | | | | | | | | | | | 2 | | |
| Testes Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Polyarteritis | | | | | | | | | | | | 2 | | | 2 | | 2 | | | | | | | 3 | | | |
| Interstitial Cell, Hyperplasia | | | | | | 2 | 2 | | 2 | 2 | | | | 1 | | | | 2 | | | | | | 1 | 1 | | |
| Seminiferous Tubule, Degeneration | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 2 | 3 | | 4 | 4 | 4 | 4 | 4 | | | 1 | | 4 | 4 | 4 | 4 | 3 | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | 3 | | 2 | 3 | | | | 3 | 2 | | | | | | 2 | | 4 | | | | | | 2 | |
| Lymph Node Axillary, Hemorrhage | + | | + | | | + | | | + | + | | | | | + | | | | | + | | | | | + | |
| Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|--|
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7 | 0
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1 | 0
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1 | 0
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| ANIMAL ID | 0
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2 | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular Hemorrhage | + | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Hyperplasia, Lymphoid | 1 | | 1 | | 3 | | 2 | | | | | | | | 3 | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | 2 | | 2 | | 3 | | 2 | | | | 3 | | 3 | | 2 | | 2 | | 2 | | 2 | | 2 | | 3 | |
| Sinus, Dilatation | 3 | | | | | | 2 | | 2 | | | | 2 | | 1 | | 2 | | | | | | | | | |
| Lymph Node, Mesenteric Hemorrhage | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 1 | | 2 | | | | | | | | 2 | | | | | | | | 2 | | | | | | | |
| Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0729 | 0668 | 0779 | 0779 | 0668 | 0779 | 0779 | 0668 | 0779 | 0668 | 0668 | 0556 | 0668 | 0668 | 0668 | 0556 | 0668 | 0177 | 0779 | 0668 | 0779 | 0556 | 0448 | 0000 | | |
| | 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 | 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 | 2 | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 5 | 6 | 7 | 8 | 1 | 1 | 2 | 2 | 1 | 1 | |
| | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | |

Cyst
 Developmental Malformation
 Fibrosis
 Hematopoietic Cell Proliferation
 Hyperplasia, Lymphoid
 Necrosis
 Pigmentation
 Capsule, Fibrosis

Thymus
 Atrophy
 Hemorrhage

INTEGUMENTARY SYSTEM

Mammary Gland
 Galactocele
 Hemorrhage
 Inflammation, Granulomatous
 Inflammation, Chronic Active
 Pigmentation
 Alveolus, Dilatation
 Epithelium, Hyperplasia
 Lobular, Hyperplasia

Skin
 Abscess
 Cyst Epithelial Inclusion
 Fibrosis
 Hyperkeratosis

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | | 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 |
|--|-------------------------|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS MALE | 0 Vehicle 104 wk | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 5 | 6 | 1 | 7 | 7 | 6 | 7 | 5 | 4 | 0 | 0 |
| | | 2 | 2 | 3 | 2 | 2 | 4 | 2 | 0 | 7 | 4 | 8 | 9 | 9 | 9 | 8 | 8 | 1 | 1 | 4 | 8 | 2 | 2 | 6 | 2 | 0 | 7 | 8 |
| | | 9 | 9 | 8 | 9 | 9 | 8 | 8 | 1 | 6 | 9 | 8 | 3 | 8 | 8 | 2 | 1 | 4 | 7 | 7 | 1 | 1 | 1 | 8 | 1 | 8 | 1 | 8 |
| | | 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 |
| | 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 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 |
| | | 1 | 1 | 2 | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 5 | 6 | 7 | 7 | 8 | 1 | 1 | 1 | 1 | 2 | 2 |
| | | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 |
| | | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | |

Epithelium, Hyperplasia

MUSCULOSKELETAL SYSTEM

Bone
 Rib, Cyst
 Tibia, Deformity

Bone, Femur
 Fibrous Osteodystrophy

Skeletal Muscle
 Fibrosis

+ +

NERVOUS SYSTEM

Brain, Brain Stem
 Compression
 Hemorrhage
 Necrosis

Brain, Cerebellum
 Hemorrhage
 Mineralization
 Necrosis
 Ventricle, Dilatation

Brain, Cerebrum
 Cyst
 Gliosis

+ +

2 3 4 4 4 3 4

3 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | | 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 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS MALE | | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 5 | 6 | 1 | 7 | 7 | 6 | 7 | 5 | 4 | | | |
| | | 2 | 2 | 3 | 2 | 2 | 4 | 2 | 0 | 7 | 4 | 8 | 9 | 9 | 9 | 8 | 1 | 1 | 4 | 8 | 2 | 2 | 6 | 2 | 0 | 7 | | | |
| | 0 Vehicle 104 wk | 9 | 9 | 8 | 9 | 9 | 8 | 8 | 1 | 6 | 9 | 8 | 3 | 8 | 8 | 2 | 1 | 4 | 7 | 8 | 1 | 1 | 1 | 8 | 1 | 8 | | | |
| | 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 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | |
| | | 1 | 1 | 2 | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 5 | 6 | 6 | 7 | 7 | 8 | 1 | 1 | 1 | 1 | 2 | 2 | |
| | | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | |

males (cont...)

Hemorrhage 2
 Mineralization
 Necrosis
 Ventricle, Dilatation 2

Peripheral Nerve
 Spinal Cord, Cervical
 Spinal Cord, Lumbar
 Spinal Cord, Thoracic

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Crystals | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | 1 | | 2 | | | | | | 1 | | | | 1 | | | 1 | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinum, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|
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8 | 0
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1 | 0
4
7
8 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | + | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keratin Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | 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 | | males
(cont...) | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---|--------------------|---|---|--|
| | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 6 | 5 | 6 | 1 | 7 | 7 | 6 | 7 | | | | 5 | 4 | |
| | 2 | 2 | 3 | 2 | 2 | 4 | 2 | 0 | 7 | 4 | 8 | 9 | 9 | 9 | 8 | 2 | 1 | 4 | 7 | 2 | 2 | 6 | 2 | 0 | 7 | 8 | 0 | | | |
| | 9 | 9 | 8 | 9 | 9 | 8 | 8 | 1 | 6 | 9 | 8 | 3 | 8 | 8 | 2 | 1 | 4 | 7 | 7 | 8 | 1 | 1 | 8 | 1 | 8 | 8 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 0 | | |
| | 1 | 1 | 2 | 3 | 3 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 1 | 1 | 1 | 1 | 2 | 0 | | |
| | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 0 | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Casts Protein | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 3 | 3 | 4 | 3 | 4 | 2 | 3 | 4 | 2 | 3 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 3 | 4 | 1 | 4 | 4 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | 1 | | 1 | | 1 | 3 | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lumen, Dilatation | | | | | | | | | | | | | | 4 | | | | | | | | | | | | 4 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | males
(cont...) | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|
| | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 3 | 6 | 6 | | | | |
| | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 6 | 7 | 2 | 1 | 5 | 7 | 2 | 2 | 5 | 2 | 2 | 2 | 4 | 2 | 8 | 9 | 0 | 6 | 0 | 0 |
| | 9 | 2 | 2 | 9 | 2 | 8 | 8 | 7 | 3 | 8 | 7 | 8 | 3 | 8 | 2 | 9 | 9 | 9 | 9 | 7 | 8 | 6 | 8 | 5 | 9 | 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 | 0 | 0 |
| | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | 0 | 0 |
| | 2 | 3 | 2 | 3 | 3 | 4 | 7 | 8 | 8 | 9 | 0 | 3 | 3 | 4 | 4 | 5 | 2 | 3 | 3 | 4 | 5 | 7 | 7 | 2 | 2 | 2 | |
| | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus
Lumen, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Edema
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum
Inflammation, Chronic Active
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |
| Intestine Small, Ileum
Necrosis | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Edema
Infiltration Cellular, Polymorphonuclear | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2
4 |
| Liver
Basophilic Focus
Clear Cell Focus
Deformity
Degeneration, Cystic
Eosinophilic Focus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X
X
X
X
2
1
2
2
1
1
2
2 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0612 | 0619 | 0632 | 0678 | 0678 | 0678 | 0664 | 0674 | 0666 | 0647 | 0667 | 0677 | 0666 | 0677 | 0677 | 0672 | 0672 | 0664 | 0678 | 0636 | 0666 | 0666 | 0666 | | |
| | 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 | | |
| | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | 2 | 7 | 2 | 3 | 3 | 4 | 7 | 8 | 8 | 9 | 0 | 3 | 3 | 4 | 4 | 5 | 2 | 3 | 3 | 4 | 5 | 7 | 7 | | | |
| | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Biliary Tract, Cyst Multilocular | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Biliary Tract, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Periportal, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--------------------------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0612 | 0619 | 0632 | 0672 | 0677 | 0677 | 0677 | 0664 | 0674 | 0667 | 0647 | 0667 | 0677 | 0677 | 0666 | 0677 | 0677 | 0672 | 0667 | 0673 | 0666 | 0666 | 0666 | | |
| 0 Vehicle 104 wk | 0072 | 0061 | 0069 | 0032 | 0072 | 0077 | 0077 | 0064 | 0074 | 0067 | 0077 | 0067 | 0077 | 0077 | 0066 | 0077 | 0077 | 0072 | 0067 | 0073 | 0066 | 0066 | 0066 | 0072 | | |
| | 0077 | 0077 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0003 | 0003 | 0003 | 0003 | 0004 | 0005 | 0005 | 0006 | | |
| | 2222 | 3322 | 2331 | 3332 | 4412 | 7781 | 8882 | 8892 | 9901 | 0021 | 0031 | 0031 | 0041 | 0041 | 0051 | 0022 | 0031 | 0032 | 0041 | 0051 | 0071 | 0072 | 0072 | | | |
| Necrosis | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | 2 2 2 4 3 2 4 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 1 2 1 2 1 4 4 4 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | 2 2 1 3 2 4 3 4 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 2 2 1 3 2 4 3 3 3 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

* .. 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

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

Experiment Number: 10119 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Furan
CAS Number: 110-00-9

Date Report Requested: 06/03/2014
Time Report Requested: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 7 | 6 | 6 | 6 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 3 | 6 | 6 | 6 | | |
| 2 | 1 | 1 | 3 | 2 | 2 | 2 | 6 | 7 | 2 | 1 | 5 | 7 | 2 | 2 | 5 | 2 | 2 | 2 | 9 | 4 | 2 | 8 | 9 | 6 | | |
| 9 | 2 | 2 | 9 | 2 | 8 | 8 | 7 | 3 | 8 | 7 | 8 | 3 | 8 | 2 | 9 | 9 | 9 | 9 | 7 | 8 | 6 | 8 | 5 | 9 | | |
| 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 | | |
| 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | | |
| 2 | 3 | 2 | 3 | 3 | 4 | 7 | 8 | 8 | 9 | 0 | 3 | 3 | 4 | 4 | 5 | 2 | 3 | 3 | 4 | 5 | 7 | 7 | 2 | | | |
| 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 1 | 2 | 3 | 3 | 4 | 3 | 3 | 4 | 2 | 2 | 2 | 1 | 2 | | | 3 | | 3 | 2 | 2 | 2 | 2 | 2 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | X | | | | | | | | | | | | | | | | | X | | | | |
| Atrium, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Myocardium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | X | | | | | X | | X | | | | | | |
| Cyst | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 4 | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 4 | 1 | 2 | 3 | 2 | 3 | 1 | 2 | | 2 | 1 | 2 | 2 | | 2 | 3 | 2 | 4 | | 3 | 3 | 3 | 3 | 2 | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 4 | 2 | 1 | | 1 | | 2 | 2 | | | | | 1 | | 4 | 1 | 2 | 4 | 2 | | | | 3 | | 1 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|
| | 0729 | 0662 | 0669 | 0662 | 0678 | 0678 | 0678 | 0667 | 0643 | 0678 | 0667 | 0648 | 0663 | 0678 | 0672 | 0665 | 0679 | 0679 | 0672 | 0664 | | | 0678 | 0636 | 0666 | 0666 |
| | 0072 | 0066 | 0066 | 0066 | 0077 | 0077 | 0077 | 0066 | 0044 | 0077 | 0066 | 0044 | 0066 | 0077 | 0077 | 0066 | 0077 | 0077 | 0066 | 0072 | 0064 | 0078 | 0036 | 0066 | 0066 | 0066 |
| | 0077 | 0077 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 2222 | 3322 | 2222 | 3322 | 3322 | 1122 | 4722 | 8822 | 8822 | 9900 | 0011 | 0033 | 0033 | 0044 | 0044 | 0055 | 0022 | 0033 | 0033 | 0044 | 0055 | 0077 | 0011 | 0055 | 0077 | 0022 |

Islets, Pancreatic Hyperplasia + 3

Parathyroid Gland Angiectasis Hyperplasia +
 2 2 1 2 1 1 2

Pituitary Gland Hemorrhage Pigmentation Pars Distalis, Angiectasis Pars Distalis, Cyst Pars Distalis, Hyperplasia Pars Intermedia, Cyst Pars Nervosa, Hyperplasia Rathke's Cleft, Cyst +
 X X 4 3 3 4 2 1 X

Thyroid Gland C-cell, Hyperplasia Follicle, Cyst +
 2 1 3 1 2 2 3 1 1 1 X 1 4 2 1 X

GENERAL BODY SYSTEM

Peritoneum
 Tissue NOS Hemorrhage Necrosis

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Exfoliated Germ Cell | | 2 | | | 1 | 2 | | 2 | | | | | | | | 2 | | 2 | | | 2 | | 3 | 3 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypospermia | 4 | | | | | | 4 | | 4 | | | | | 4 | 4 | 3 | 4 | 4 | 4 | | | 4 | 3 | 4 | |
| Epithelium, Degeneration | 4 | 2 | | 2 | | | 2 | | | | | | 3 | 3 | 3 | 2 | 4 | 2 | | | | 3 | 2 | 3 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Abscess | | | | | 4 | | | | | | | | 4 | | | | | | | | | | | | |
| Fibrosis | 2 | 2 | 2 | | | | | 3 | | | | | | 2 | 2 | 2 | | 2 | | | | | | 3 | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | 3 | 3 | | 3 | | | | | 4 | 4 | | | 4 | | 4 | 4 | | 4 | |
| Inflammation, Chronic Active | 2 | 2 | 2 | 3 | | 3 | | | 2 | | 2 | | 2 | 3 | | | 2 | 4 | | | | 2 | 3 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Duct, Ectasia | 4 | | 3 | 4 | | | 2 | | | 3 | | | 2 | | 4 | | 2 | | 2 | | 4 | | | 4 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | 2 | | | | | | | | | | | 2 | 2 | 2 | | | | | 2 | | | |
| Degeneration, Cystic | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | 2 | 1 | 2 | 3 | 1 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | | 1 | | 2 | | 1 | 2 | 2 | 1 | | 2 | 2 |
| Inflammation, Chronic Active | 2 | | | | | | | | | | | | | | | | | 1 | | | | 1 | | | |
| Epithelium, Hyperplasia | 2 | | 1 | 1 | 3 | 1 | 2 | 2 | | | | 2 | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Seminal Vesicle | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 2 | | | | | | 4 | | | | | | | 3 | 3 | 2 | | | | 3 | 2 | | | 2 | | 2 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative
Lumen, Dilatation | | | | | | 3 | | | | 2 | | | 2 | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | 2 | | | 1 | 2 | | | | | | | | | | | 2 | | | | | 2 | |
| Interstitial Cell, Hyperplasia | 1 | 2 | | 3 | 1 | 2 | | | 1 | 1 | 1 | 1 | | | | 1 | 2 | | | | | | 2 | | 2 | |
| Seminiferous Tubule, Degeneration | 4 | 2 | | 2 | 2 | 2 | 4 | 2 | | 4 | | | 1 | 4 | 4 | 3 | 4 | 4 | 4 | 1 | 2 | | 4 | 4 | 4 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | 3 | | 3 | | | | | | | | | | | | |
| Lymph Node | + | + | + | + | + | + | | | | | | + | | | + | | + | | | | + | | + | + | + | |
| Axillary, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Infiltration Cellular,
Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|-----|-----------------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 6 | 6 | 6 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 3 | 6 | 6 | 6 | 001 | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 1 | 3 | 2 | 2 | 2 | 6 | 7 | 2 | 1 | 5 | 7 | 2 | 2 | 5 | 2 | 2 | 2 | 4 | 2 | 8 | 9 | 0 | 6 | | 002 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 2 | 2 | 9 | 2 | 8 | 8 | 7 | 3 | 8 | 7 | 8 | 3 | 8 | 2 | 9 | 9 | 9 | 9 | 7 | 8 | 6 | 8 | 5 | 9 | | 003 | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | 004 | | | | | | | | | | | | | | | | | | | | | | |
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| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mandibular Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 2 | 2 | 2 | 2 | | 2 | | | | | | 2 | | | | | | |
| Lymph Node, Mandibular Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 2 | | 2 | | 1 | | | | 2 | | | 2 | | 2 | | | 2 | |
| Lymph Node, Mandibular Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | | 2 | | 4 | 1 | 2 | | | | | | 1 | | 2 | 3 | | | | | | | | |
| Lymph Node, Mesenteric Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mesenteric Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 2 | | | | | 2 | 1 | 1 | 2 | 1 | | 1 | | | 2 | 1 | | | | | |
| Lymph Node, Mesenteric Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | | | 2 | | | | | | | | 2 | | | | | 2 | | |
| Lymph Node, Mesenteric Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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Experiment Number: 10119 - 01
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0662 | 0669 | 0662 | 0778 | 0778 | 0778 | 0667 | 0443 | 0778 | 0667 | 0443 | 0667 | 0778 | 0778 | 0667 | 0778 | 0778 | 0667 | 0667 | 0336 | 0666 | 0666 | 0666 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0072 | males
(cont...) |

Cyst
 Developmental Malformation X
 Fibrosis 4
 Hematopoietic Cell Proliferation 2 1 2 2 3 2 2 2
 Hyperplasia, Lymphoid
 Necrosis
 Pigmentation 3 4 3 3 3 2 2 3 2
 Capsule, Fibrosis 2

Thymus + M M + +
 Atrophy 4
 Hemorrhage

INTEGUMENTARY SYSTEM

Mammary Gland +
 Galactocele X
 Hemorrhage
 Inflammation, Granulomatous
 Inflammation, Chronic Active
 Pigmentation
 Alveolus, Dilatation 2 2 2 3 2 2
 Epithelium, Hyperplasia 1
 Lobular, Hyperplasia 3 4

Skin +
 Abscess
 Cyst Epithelial Inclusion X X
 Fibrosis
 Hyperkeratosis

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|
| FISCHER 344 RATS-NCTR RATS MALE | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 3 | 6 | 6 | |
| 0 Vehicle 104 wk | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 6 | 7 | 2 | 1 | 5 | 7 | 2 | 2 | 5 | 2 | 2 | 2 | 4 | 2 | 8 | 8 | 0 | |
| | 9 | 2 | 9 | 2 | 8 | 8 | 7 | 3 | 8 | 7 | 8 | 3 | 8 | 2 | 9 | 9 | 9 | 9 | 7 | 8 | 6 | 8 | 5 | 6 | |
| 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 | males (cont...) |
| | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 6 | |
| | 2 | 3 | 2 | 3 | 3 | 4 | 7 | 8 | 8 | 9 | 0 | 3 | 3 | 4 | 4 | 5 | 2 | 3 | 3 | 4 | 5 | 7 | 7 | 2 | |
| | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | |

Epithelium, Hyperplasia

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | |
| Rib, Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Tibia, Deformity | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | + | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | | 2 | | | | 4 | 4 | | 2 | | 3 | | | | | | 2 | | | | 4 | 2 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | 4 | | | | | | | | | 4 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Furan
CAS Number: 110-00-9

Date Report Requested: 06/03/2014
Time Report Requested: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

| DAY ON TEST | | 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 | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS
MALE | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 4 | 2 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 6 | 7 | 2 | 1 | 5 | 7 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 4 | 2 | 8 | 8 | 9 | 0 | 0 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 0 Vehicle 104 wk | 9 | 2 | 2 | 9 | 2 | 8 | 8 | 7 | 3 | 8 | 7 | 8 | 3 | 8 | 2 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 8 | 6 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 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 |
| ANIMAL ID | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 2 | 3 | 2 | 3 | 3 | 4 | 7 | 8 | 8 | 9 | 0 | 3 | 3 | 4 | 4 | 5 | 2 | 2 | 3 | 3 | 4 | 5 | 2 | 3 | 3 | 4 | 5 | 7 | 7 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

males
(cont...)

| | |
|-----------------------|---|
| Hemorrhage | 4 |
| Mineralization | |
| Necrosis | 4 |
| Ventricle, Dilatation | 1 |
| Peripheral Nerve | |
| Spinal Cord, Cervical | |
| Spinal Cord, Lumbar | |
| Spinal Cord, Thoracic | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| Crystals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | | | 1 | | 2 | | | | | 1 | | 2 | | | | | | 3 | | | | | 3 | | | 2 | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinum, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
CAS Number: 110-00-9

Date Report Requested: 06/03/2014
Time Report Requested: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

| DAY ON TEST | 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 |
|--|---|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 3 | 6 | 6 | 6 | 6 |
| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 6 | 7 | 2 | 1 | 5 | 7 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 4 | 4 | 8 | 8 | 9 | 0 | 6 |
| | 9 | 2 | 2 | 9 | 2 | 8 | 8 | 7 | 3 | 8 | 7 | 8 | 3 | 8 | 2 | 2 | 9 | 9 | 9 | 9 | 7 | 8 | 6 | 8 | 5 | 9 | 6 |
| 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 | 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 |
| | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 6 |
| | 2 | 3 | 2 | 3 | 3 | 4 | 7 | 8 | 8 | 9 | 0 | 0 | 3 | 3 | 4 | 4 | 5 | 2 | 3 | 3 | 3 | 4 | 5 | 7 | 7 | 7 | 2 |
| | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 |
| | | males
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | X | | | | | | X | | | | | | | |
| Inflammation, Suppurative
Goblet Cell, Hyperplasia | | | | | | | | | | | | | | 2 | 3 | | | | | 1 | | | | | | | 2 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | 2 | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | 1 | | | | | | 3 | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keratin Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 A .. Autolysis precludes evaluation
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|---------------------------------|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-----------------|----|
| 0 Vehicle 104 wk | | 07 | 06 | 06 | 06 | 07 | 07 | 07 | 06 | 04 | 07 | 06 | 04 | 06 | 07 | 07 | 06 | 07 | 07 | 06 | 07 | 03 | 06 | 06 | 06 | | | 06 |
| | | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 6 | 7 | 2 | 1 | 5 | 7 | 2 | 2 | 5 | 2 | 2 | 2 | 4 | 2 | 8 | 9 | 0 | 6 | 6 | 6 |
| | | 9 | 2 | 9 | 2 | 8 | 8 | 8 | 7 | 3 | 8 | 7 | 8 | 3 | 8 | 2 | 9 | 9 | 9 | 9 | 7 | 8 | 6 | 8 | 5 | 6 | 6 | 9 |
| | | 00 | 00 | 01 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| | | 77 | 77 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 01 | 11 | 11 | 11 | 11 | 11 | 11 | 33 | 33 | 33 | 33 | 33 | 55 | 55 | 66 | 66 | 66 | |
| | | 22 | 32 | 22 | 33 | 33 | 44 | 77 | 88 | 88 | 99 | 00 | 33 | 33 | 44 | 44 | 55 | 22 | 33 | 33 | 44 | 55 | 77 | 77 | 22 | 22 | 22 | |
| | | 22 | 22 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 | 11 | 22 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Casts Protein | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Hydronephrosis | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 2 | 4 | 3 | 4 | 2 | 3 | 3 | 4 | 4 | 4 | 1 | 4 | 4 | 3 | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | 2 | 1 | 1 | | | | | | | | | 2 | 1 | | | | 1 | 1 | 1 | | 1 | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lumen, Dilatation | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | 3 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|
| | 0
5
6
3 | 0
6
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3 | 0
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2 | 0
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9 | 0
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3 | 0
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9 | 0
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1 | 0
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1 | 0
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1 | 0
2
4
4 | 0
2
4
5 | 0
2
4
5 | 0
2
6
3 | 0
2
5
1 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|---|---|---|---|---|---|---|---|---|---|
| Esophagus
Lumen, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Edema
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | 3
2 | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum
Inflammation, Chronic Active
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | 3
2 | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Edema
Infiltration Cellular, Polymorphonuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver
Basophilic Focus
Clear Cell Focus
Deformity
Degeneration, Cystic
Eosinophilic Focus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | X | | X | | | | X | X | X | | | X | | | | | | | | X | | | |
| | | | | 1 | 2 | | | 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
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| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | | 1 | | | 1 | | 1 | | | | | | | | | | | | | 1 | | | | 1 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | X | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Vacuolization Cytoplasmic | | | | | | 2 | | | | | | | | | | | | | | | | | | | 3 | |
| Bile Duct, Biliary Tract, Cyst Multilocular | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Biliary Tract, Hyperplasia | | 1 | | | 3 | | 1 | | 2 | | | 1 | 2 | | | 2 | 2 | | 1 | | 2 | | 1 | 1 | | |
| Capsule, Infiltration Cellular,
Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | 2 | | 2 | 3 | | | | 2 | | | | | |
| Centrilobular, Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | 1 | | | | | | | 1 | | | | | |
| Oval Cell, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Periportal, Vacuolization Cytoplasmic | | 1 | 1 | 1 | 2 | | | 2 | | | | 2 | | | 4 | | | 2 | 2 | 1 | | 1 | 2 | | | |
| Mesentery | + | | | | | | | | | + | | | | | | | | | | | + | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 4 | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | |
|--------------------------------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|---|---|--|
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| 6 | 6 | 4 | 5 | 0 | 2 | 7 | 3 | 2 | 0 | 2 | 2 | 7 | 5 | 4 | 7 | 2 | 7 | 1 | 5 | 7 | 2 | 9 | 4 | 0 | 1 | |
| 3 | 3 | 2 | 9 | 2 | 9 | 7 | 3 | 8 | 6 | 8 | 8 | 1 | 3 | 5 | 3 | 8 | 6 | 2 | 5 | 9 | 8 | 0 | 6 | 8 | 2 | |
| 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | |
| 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 5 | 2 | |
| 3 | 4 | 4 | 5 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 0 | 7 | 7 | 8 | 8 | 9 | 4 | 5 | 5 | 6 | 3 | 3 | |
| 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0563 | 0663 | 0442 | 0659 | 0702 | 0429 | 0577 | 0633 | 0728 | 0506 | 0728 | 0778 | 0521 | 0433 | 0655 | 0728 | 0676 | 0725 | 0659 | 0579 | 0728 | 0390 | 0664 | 0706 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0163 | males
(cont...) |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0666 | |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 5 | 344 | |
| | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 222 | | |

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| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 2 | 1 | 1 | 2 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 4 | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 1 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | X | | | | | | | | | | | | X |
| Atrium, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Myocardium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | 2 | | | | | |
| Necrosis | | | | 2 | | | | | | | | | | | | | 1 | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 3 | 2 | 1 | 3 | 2 | | 1 | | 2 | 2 | 1 | 4 | 4 | 1 | 4 | 2 | 3 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 1 | | | 1 | | | 2 | | 1 | | 2 | 2 | | 1 | | 2 | | 2 | 3 | | 1 | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Furan

CAS Number: 110-00-9

Date Report Requested: 06/03/2014

Time Report Requested: 08:42:42

First Dose M/F: 09/07/09 / NA

Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland Angiectasis Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
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| Pituitary Gland Hemorrhage Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Nervosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rathke's Cleft, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland C-cell, Hyperplasia Follicle, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
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GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS Hemorrhage Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
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GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exfoliated Germ Cell | | | 2 | | | | 2 | | | | | | 2 | 2 | | | | 3 | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypospermia | | 4 | | | | 4 | | | | 4 | | | 4 | 2 | 4 | | 4 | | 3 | | | | | 4 |
| Epithelium, Degeneration | | | | | | | | | | 4 | | | 3 | 2 | | 2 | 3 | | | | | | | 4 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Abscess | | 4 | | | 4 | | | | 4 | | | | | | | | | | 4 | | | | | |
| Fibrosis | | | | 2 | 3 | | | | | 2 | | | 3 | 4 | | 2 | 2 | 2 | | | | | 3 | 3 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Inflammation, Suppurative | 4 | 4 | | | | 4 | 3 | | | | 4 | | | | | 4 | 3 | 4 | | 4 | | 4 | 2 | |
| Inflammation, Chronic Active | | | 1 | 2 | 2 | | | | 3 | 2 | | 2 | 2 | 4 | 2 | 4 | | | | | 2 | | | |
| Necrosis | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Acinus, Hyperplasia | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Duct, Ectasia | 3 | 4 | | 2 | 2 | 4 | 3 | | | 4 | | 2 | 3 | | 2 | 2 | 2 | 4 | 2 | 4 | | 2 | 2 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | 2 | | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 1 | 1 | 2 | 2 | | 2 | | 3 | 2 | 3 | | 1 | 3 | 1 |
| Inflammation, Chronic Active | | | 2 | | | | | | | | | | | | | | | 1 | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | 1 | | | | 3 | 1 | | 2 | | | | | |

* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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 Furan
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Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|
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4 | 0
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5 | 0
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5 | 0
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6
6 | 0
2
6
3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | 2 | | | | | | | | | | | | | | 2 | |
| Edema | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Inflammation, Suppurative
Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | 1 | | 2 | | | | | | 1 | | | | | | 1 | | 1 | 1 | | | | 1 | | |
| Interstitial Cell, Hyperplasia | 2 | 1 | | 1 | 3 | 1 | 2 | | | 2 | | | 2 | | | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | |
| Seminiferous Tubule, Degeneration | | 4 | 2 | | 2 | | 4 | 1 | 2 | | | 4 | 2 | 1 | | 4 | 3 | 4 | 1 | 4 | 2 | 1 | 3 | 1 | 4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | 4 | | | 4 | | | | | | | 3 | | | | | 2 | | | | 2 | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| Axillary, Hemorrhage | | | | + | + | | | | | + | + | | | | | | | + | | | + | + | | + |
| Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Inguinal, Infiltration Cellular,
Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | 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
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|---|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0563 | 0663 | 0442 | 0659 | 0702 | 0429 | 0577 | 0633 | 0728 | 0506 | 0728 | 0728 | 0571 | 0463 | 0663 | 0728 | 0666 | 0772 | 0675 | 0579 | 0780 | 0390 | 0668 | 0708 | | |
| 0 Vehicle 104 wk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1632 | males (cont...) |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

* .. 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
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|--------------------|
| | 0563 | 0663 | 0442 | 0659 | 0702 | 0449 | 0577 | 0663 | 0773 | 0558 | 0778 | 0778 | 0551 | 0443 | 0665 | 0663 | 0778 | 0662 | 0775 | 0390 | | | 0666 | 0770 | 0394 | 0668 | 0770 |
| | 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 | 0163 | males
(cont...) |
| | 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 | 0111 | |
| | 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 | 0666 | |
| | 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 | 0344 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | 2 | | | | | | | 3 | | | | | | 2 | | | 2 | | | 3 | | | | |
| Hyperplasia, Lymphoid | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Pigmentation | | 2 | | 4 | | | | 2 | 2 | 3 | 2 | | 3 | | 3 | | 4 | | | 2 | 1 | 3 | | 4 | 3 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 | 4 | 4 | | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | | X | | X | | | X | X | X | X | | X | | | | X | | X | X | X | X | X | | X | X |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Dilatation | | | | | | 3 | | | | | | 1 | | 3 | 3 | | | 2 | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Lobular, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | 4 | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | | | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | 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 | males
(cont...) | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|
| | 5 | 6 | 4 | 6 | 7 | 4 | 5 | 6 | 7 | 5 | 7 | 7 | 5 | 4 | 6 | 6 | 7 | 6 | 7 | 6 | 7 | 5 | 7 | 3 | 6 | | | 7 |
| | 6 | 6 | 4 | 5 | 0 | 2 | 7 | 3 | 2 | 0 | 2 | 2 | 7 | 5 | 4 | 7 | 2 | 7 | 1 | 5 | 7 | 2 | 9 | 2 | 9 | 0 | 1 | |
| | 3 | 3 | 2 | 9 | 2 | 9 | 7 | 3 | 8 | 6 | 8 | 8 | 1 | 3 | 5 | 3 | 8 | 6 | 2 | 5 | 9 | 8 | 0 | 6 | 8 | | 2 | |
| | 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 | 6 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 5 | 3 | |
| | 3 | 4 | 4 | 5 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 0 | 7 | 7 | 8 | 8 | 9 | 4 | 5 | 5 | 6 | 6 | 3 | 2 | |
| | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | |

Epithelium, Hyperplasia

MUSCULOSKELETAL SYSTEM

Bone
 Rib, Cyst
 Tibia, Deformity

+

Bone, Femur
 Fibrous Osteodystrophy

+ +

Skeletal Muscle
 Fibrosis

+

+

NERVOUS SYSTEM

Brain, Brain Stem
 Compression
 Hemorrhage
 Necrosis

+
 4 4 4 4 3 2 4 4 4 3 4

Brain, Cerebellum
 Hemorrhage
 Mineralization
 Necrosis
 Ventricle, Dilatation

+
 2

Brain, Cerebrum
 Cyst
 Gliosis

+
 X
 4

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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3
1 |

Hemorrhage
 Mineralization
 Necrosis
 Ventricle, Dilatation

1 4 2 1

Peripheral Nerve
 Spinal Cord, Cervical
 Spinal Cord, Lumbar
 Spinal Cord, Thoracic

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Crystals | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Histiocytosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | 1 | | | | | | | | | | | | | | | | | | | | 2 | 3 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mediastinum, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Furan
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|
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|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | 2 | | | | | 2 | 2 | | | | | | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Cornea, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Retina, Degeneration | | | | | | | | | | | | | 3 | 3 | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keratin Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 M .. Missing tissue
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 BLANK .. Not examined microscopically
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|--|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | | |
| FISCHER 344 RATS-NCTR RATS
MALE | | 5 | 6 | 4 | 6 | 7 | 4 | 5 | 6 | 7 | 5 | 7 | 7 | 5 | 4 | 6 | 6 | 7 | 6 | 7 | 6 | 5 | 7 | 3 | 6 | 7 | |
| | 0 Vehicle 104 wk | 6 | 6 | 4 | 5 | 0 | 2 | 7 | 3 | 2 | 0 | 2 | 2 | 7 | 5 | 4 | 7 | 2 | 7 | 1 | 5 | 7 | 2 | 9 | 4 | 0 | 8 |
| | | 3 | 3 | 2 | 9 | 2 | 9 | 7 | 3 | 8 | 6 | 8 | 8 | 1 | 3 | 5 | 3 | 8 | 6 | 2 | 5 | 9 | 8 | 0 | 6 | 8 | |
| | | 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 |
| | ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 5 | |
| | | 3 | 4 | 4 | 5 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 0 | 7 | 7 | 8 | 8 | 9 | 4 | 5 | 5 | 6 | 6 | 3 |
| | | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Casts Protein | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Nephropathy | 2 | 2 | 2 | 4 | 3 | 1 | 4 | 4 | 2 | 1 | 4 | 4 | 2 | 1 | 4 | 4 | 2 | | | | 4 | 4 | 3 | 4 | 2 | 4 | 4 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0 Vehicle 104 wk | DAY ON TEST | 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 | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 7 | 7 | 6 | 5 | 7 | 7 | 5 | 5 | 6 | 7 | 7 | 6 | 5 | 6 | 4 | 6 | 5 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 3 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 7 | 3 | |
| | | 8 | 8 | 9 | 6 | 2 | 2 | 9 | 2 | 8 | 2 | 2 | 2 | 2 | 7 | 5 | 1 | 6 | 2 | 8 | 2 | 8 | 8 | 0 | 2 | 2 | 8 | 2 | 8 | 0 | 7 | 8 | 2 | 2 | 2 | 8 | 2 | 8 | 2 | 5 | |
| | | 8 | 8 | 2 | 5 | 8 | 8 | 6 | 2 | 4 | 8 | 8 | 0 | 9 | 1 | 0 | 1 | 9 | 0 | 8 | 8 | 8 | 1 | 9 | 0 | 8 | 8 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | 3 | 4 | 4 | 5 | 6 | 9 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Esophagus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Colon | | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Duodenum | | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Basophilic Focus | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deformity | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | 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 | | |
| | 7 | 7 | 6 | 5 | 7 | 7 | 5 | 5 | 6 | 7 | 7 | 6 | 5 | 6 | 4 | 6 | 5 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 3 | | |
| | 2 | 2 | 9 | 6 | 2 | 2 | 9 | 2 | 8 | 2 | 2 | 2 | 2 | 7 | 5 | 1 | 6 | 2 | 8 | 2 | 2 | 0 | 2 | 2 | 5 | | |
| | 8 | 8 | 2 | 5 | 8 | 8 | 6 | 2 | 4 | 8 | 8 | 0 | 9 | 1 | 7 | 0 | 1 | 9 | 0 | 8 | 8 | 8 | 8 | 2 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | | | |
| | 3 | 4 | 4 | 5 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | 8 | 8 | 9 | 0 | 0 | 9 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | | | |
| | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |

Necrosis
 Polyarteritis 3
 Acinar Cell, Hyperplasia 2
 Acinus, Degeneration 1 2 3 2
 Artery, Hyperplasia 4

Salivary Glands +
 Acinar Cell, Hyperplasia 4

Stomach, Forestomach + + + + + + + + + + + + + A + + + + + + + + + + + +
 Edema 2 2
 Fibrosis
 Hyperplasia, Basal Cell
 Inflammation, Chronic Active 2 1
 Necrosis
 Perforation
 Ulcer
 Epithelium, Hyperplasia 2 1 2 2 1
 Serosa, Fibrosis
 Serosa, Inflammation, Chronic Active

Stomach, Glandular + + + + + + + + + + + + + A + + + + + + + + + + + +
 Edema
 Inflammation, Chronic Active
 Ulcer
 Mucosa, Hyperplasia

Tongue

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 078 | 078 | 069 | 056 | 072 | 078 | 055 | 055 | 066 | 077 | 077 | 066 | 055 | 066 | 044 | 066 | 055 | 077 | 044 | 077 | 055 | 077 | 055 | 077 | | |
| | 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 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| | 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 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 3 | 4 | 4 | 5 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | 8 | 8 | 9 | 0 | 0 | 9 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 3 | 1 | 2 | 2 | 2 | 2 | 3 | | 3 | 3 | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | | 3 | 3 | 2 |
| Congestion | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Thrombosis | | | | | | | X | | | | | | | | | | | | | | | | X | | |
| Atrium, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myocardium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Pericardium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 4 | 2 | 2 | 2 | | | 1 | | 4 | 2 | | 2 | 2 | | 1 | 3 | 1 | 1 | 1 | 3 | 2 | 2 | 4 | 3 | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 1 | | 2 | | | 2 | | | 2 | | | | | | | | | 2 | 1 | 1 | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
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Furan
CAS Number: 110-00-9

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Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0728 | 0728 | 0692 | 0566 | 0772 | 0577 | 0555 | 0555 | 0666 | 0777 | 0777 | 0666 | 0555 | 0666 | 0444 | 0666 | 0555 | 0777 | 0444 | 0777 | | | 0555 | 0777 | 0555 |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland Angiectasis Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland Hemorrhage Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Nervosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rathke's Cleft, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland C-cell, Hyperplasia Follicle, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS Hemorrhage Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | |
| FISCHER 344 RATS-NCTR RATS
MALE | | 7 | 7 | 6 | 5 | 7 | 7 | 5 | 5 | 6 | 7 | 7 | 6 | 5 | 6 | 4 | 6 | 5 | 7 | 4 | 7 | 5 | 7 | 7 | 3 |
| | 0 Vehicle 104 wk | 2 | 2 | 9 | 6 | 2 | 2 | 9 | 2 | 8 | 2 | 2 | 2 | 2 | 7 | 5 | 1 | 6 | 2 | 8 | 2 | 2 | 0 | 2 | 5 |
| | | 8 | 8 | 2 | 5 | 8 | 8 | 6 | 2 | 4 | 8 | 8 | 0 | 9 | 1 | 0 | 1 | 9 | 0 | 8 | 8 | 8 | 8 | 2 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 3 | |
| | | 3 | 4 | 4 | 5 | 6 | 6 | 9 | 0 | 1 | 1 | 1 | 8 | 8 | 9 | 0 | 9 | 9 | 0 | 1 | 2 | 2 | 9 | 0 | |
| | | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exfoliated Germ Cell | | | 3 | | | | 2 | | | 3 | | | | | | | | | 2 | 3 | 2 | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hypospermia | 4 | 2 | 3 | | 4 | 4 | 4 | 4 | 4 | | 4 | | 4 | | 4 | | 4 | | 3 | | 3 | 4 | 4 | |
| Epithelium, Degeneration | 4 | | 2 | | 4 | 3 | 3 | 3 | 4 | | 3 | | 3 | | | | | 2 | 2 | | 2 | | 2 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | 2 | | 3 | 3 | 2 | 3 | 3 | | 4 | | 2 | 3 | 4 | 4 | 2 | | | | | 2 | 3 | 3 | 3 | |
| Hyperkeratosis | | | | | | | | | | 4 | | | | | | | | 4 | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | 4 | 4 | | 2 | | | | | 2 | 4 | 3 | | | | 4 | | 4 | | | 3 | 4 |
| Inflammation, Chronic Active | 3 | | 3 | | | | 2 | | | 4 | 2 | 2 | | | | 2 | 2 | | | | 3 | 2 | | |
| Necrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | 4 | | | | | | | | 3 | | | | | | | | | | | |
| Duct, Ectasia | 3 | | | 4 | 3 | | 4 | 4 | 2 | 4 | | 3 | 4 | 3 | 3 | | | 4 | 4 | 3 | 3 | | 2 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 3 | | | | | 2 | 3 | 3 | | | 4 | | | | | | | | 2 | | | 2 | 4 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | 1 | 2 | 1 | 2 | 3 | | | | 1 | | | 2 | | 3 | 2 | 2 | | 1 | 1 | 3 | 1 | 4 | |
| Inflammation, Chronic Active | | | | | | | | | 2 | | | 2 | | 2 | | | | | | | | | | |
| Epithelium, Hyperplasia | | | 1 | 1 | 3 | 3 | | | | | 3 | 2 | | | 2 | 3 | | | | | 4 | | | |

* .. 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
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 Furan
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 3 | | | | 2 | 2 | 3 | 4 | 2 | | 4 | | | | | | | | 3 | | | | | | 2 | | 4 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative
Lumen, Dilatation | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Interstitial Cell, Hyperplasia | 2 | 1 | | | | | | | | 2 | | 1 | | 2 | 1 | 1 | 2 | | 1 | 2 | 2 | 2 | 1 | | | 2 | | |
| Seminiferous Tubule, Degeneration | 4 | 3 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | | | 4 | | 4 | | 4 | | 4 | 2 | 3 | 4 | 4 | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | 4 | 3 | | | | | 2 | | | | | | 2 | | | | | | | 4 | |
| Lymph Node | + | | | | | | | | + | + | + | | | A | | | | | | | | + | + | + | | | | |
| Axillary, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Infiltration Cellular,
Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | | 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 |
|---------------------------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS MALE | | 7 | 7 | 6 | 5 | 7 | 7 | 5 | 5 | 6 | 7 | 7 | 6 | 5 | 6 | 4 | 6 | 5 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 3 | |
| | 0 Vehicle 104 wk | 2 | 2 | 9 | 6 | 2 | 2 | 9 | 2 | 8 | 2 | 2 | 2 | 2 | 7 | 5 | 1 | 6 | 2 | 8 | 2 | 2 | 0 | 2 | 2 | 5 | |
| | ANIMAL ID | 8 | 8 | 2 | 5 | 8 | 8 | 6 | 2 | 4 | 8 | 8 | 0 | 9 | 1 | 7 | 0 | 1 | 9 | 0 | 8 | 8 | 8 | 8 | 8 | 2 | |
| | | 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 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 3 | |
| | | 3 | 4 | 4 | 5 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | 8 | 8 | 9 | 0 | 0 | 9 | 9 | 0 | 1 | 2 | 2 | 2 | 9 | | |
| | | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | | |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Lymph Node, Mandibular Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid | | | 2 | | | | 2 | 1 | | | | | | | | | 1 | 2 | | | | 2 | | 2 | 3 | | | |
| Infiltration Cellular, Plasma Cell | 2 | 2 | 2 | | | 3 | | 2 | | | | 2 | 2 | 2 | | 2 | | | | | | 3 | | 3 | | | | |
| Sinus, Dilatation | | 4 | | | | | | | 1 | | | | 2 | | | | | | | | | 1 | | 2 | | | | |
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia, Lymphoid | | | | | | 2 | | | | | | | | | | | 2 | 1 | 2 | 2 | | | | 2 | 2 | 2 | | |
| Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | 3 | | | | 2 | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 078 | 078 | 069 | 056 | 072 | 072 | 055 | 055 | 066 | 077 | 077 | 066 | 055 | 066 | 044 | 066 | 055 | 077 | 044 | 077 | 055 | 077 | 077 | 033 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | | |
| | 3 | 4 | 4 | 5 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | 8 | 8 | 9 | 0 | 0 | 9 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | | |
| | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | | |

Cyst
 Developmental Malformation
 Fibrosis
 Hematopoietic Cell Proliferation 2 2 2 2
 Hyperplasia, Lymphoid 2
 Necrosis
 Pigmentation 3 3 3 2 2 2 2 4 2 2 3 4 2 2 2
 Capsule, Fibrosis

Thymus +
 Atrophy 4 4 4 4 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
 Hemorrhage

INTEGUMENTARY SYSTEM

Mammary Gland +
 Galactocele X
 Hemorrhage
 Inflammation, Granulomatous
 Inflammation, Chronic Active
 Pigmentation
 Alveolus, Dilatation 4 1 2 2
 Epithelium, Hyperplasia
 Lobular, Hyperplasia 4 2

Skin +
 Abscess
 Cyst Epithelial Inclusion X
 Fibrosis
 Hyperkeratosis

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

Experiment Number: 10119 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Furan
CAS Number: 110-00-9

Date Report Requested: 06/03/2014
Time Report Requested: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

| DAY ON TEST | 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 | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|--|
| FISCHER 344 RATS-NCTR RATS MALE | 7 | 7 | 6 | 5 | 7 | 7 | 5 | 5 | 6 | 7 | 7 | 6 | 5 | 6 | 4 | 6 | 5 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 3 | 7 | 3 | | |
| 0 Vehicle 104 wk | 8 | 8 | 2 | 5 | 8 | 8 | 6 | 2 | 4 | 8 | 8 | 0 | 9 | 1 | 7 | 0 | 1 | 9 | 8 | 8 | 8 | 0 | 8 | 8 | 2 | 8 | 2 | | |
| ANIMAL ID | 02532 | 02534 | 02535 | 02536 | 02537 | 02538 | 02539 | 02540 | 02541 | 02542 | 02543 | 02544 | 02545 | 02546 | 02547 | 02548 | 02549 | 02550 | 02551 | 02552 | 02553 | 02554 | 02555 | 02556 | 02557 | 02558 | 02559 | males (cont...) | |

Epithelium, Hyperplasia

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rib, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tibia, Deformity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | |
| Compression | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | 4 | | 4 | 4 | | 2 | | | | | | | | | | | | 2 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0728 | 0728 | 0692 | 0565 | 0772 | 0575 | 0555 | 0666 | 0777 | 0777 | 0666 | 0555 | 0666 | 0444 | 0666 | 0555 | 0777 | 0444 | 0777 | 0555 | 0777 | 0555 | 0777 | 0333 | 0777 | | |
| 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 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 8 | 8 | 8 | 2 | 5 | 8 | 8 | 6 | 2 | 4 | 8 | 8 | 0 | 9 | 1 | 7 | 0 | 1 | 9 | 0 | 8 | 8 | 8 | 8 | 7 | 8 | 2 | 2 |
| 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 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 3 | 4 | 4 | 4 | 5 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | 8 | 8 | 9 | 0 | 0 | 9 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Hemorrhage
 Mineralization
 Necrosis
 Ventricle, Dilatation

2 1 2 1

Peripheral Nerve
 Spinal Cord, Cervical
 Spinal Cord, Lumbar
 Spinal Cord, Thoracic

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Crystals | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinum, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------|--------------------|
| | 078 | 078 | 069 | 056 | 072 | 078 | 055 | 055 | 066 | 077 | 077 | 066 | 055 | 066 | 044 | 066 | 055 | 077 | 044 | 077 | 055 | 077 | 077 | 033 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0253 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5342 | | |
| | 8 | 8 | 2 | 5 | 8 | 8 | 6 | 2 | 4 | 8 | 8 | 0 | 9 | 1 | 7 | 0 | 1 | 9 | 0 | 8 | 8 | 8 | 8 | 352 | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | X | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | 1 | | | | | | 2 | | | | 1 | | 2 | | | | |
| Goblet Cell, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ear | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Cataract | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Ulcer | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Keratin Cyst | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 I .. Insufficient tissue
 M .. Missing tissue
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 Furan
 CAS Number: 110-00-9

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 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 078 | 078 | 062 | 056 | 057 | 077 | 055 | 055 | 066 | 077 | 077 | 066 | 055 | 066 | 044 | 066 | 055 | 077 | 044 | 077 | 055 | 077 | 055 | 077 | 033 | | |
| | 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 | | |
| | 2 | 2 | 9 | 6 | 2 | 2 | 9 | 2 | 8 | 2 | 2 | 2 | 2 | 7 | 5 | 1 | 6 | 2 | 8 | 2 | 2 | 0 | 2 | 2 | 2 | | |
| | 8 | 8 | 2 | 5 | 8 | 8 | 6 | 2 | 4 | 8 | 8 | 0 | 9 | 1 | 7 | 0 | 1 | 9 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | 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 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | |
| | 3 | 4 | 4 | 5 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | 8 | 8 | 9 | 0 | 9 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | | | |
| | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Casts Protein | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | X | | | | | X | | | | | | | | | | | |
| Hydronephrosis | | | | | | | 2 | | | | | | | | | | | | | 2 | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 1 | 2 | 4 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 4 | 4 | 2 | 4 | 4 | 2 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|
| FISCHER 344 RATS-NCTR RATS MALE | 0 Vehicle 104 wk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 5 | 5 | 6 | 6 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 5 | 7 | 6 | 6 | 5 | 6 | 6 | 7 | | 7 |
| | | 0 | 2 | 9 | 5 | 2 | 6 | 2 | 9 | 2 | 1 | 2 | 7 | 2 | 6 | 2 | 2 | 2 | 8 | 8 | 2 | 2 | 9 | 6 | 0 | males (cont...) |
| | | 3 | 0 | 6 | 4 | 8 | 3 | 8 | 9 | 2 | 7 | 8 | 4 | 8 | 3 | 8 | 8 | 8 | 0 | 4 | 7 | 0 | 3 | 9 | | |
| | | 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 | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | | |
| | | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 0 | 0 | | |
| | | 3 | 3 | 4 | 4 | 5 | 4 | 5 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | | |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus
Lumen, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Edema
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum
Inflammation, Chronic Active
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 2 |
| Intestine Small, Ileum
Necrosis | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Edema
Infiltration Cellular, Polymorphonuclear | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Liver
Basophilic Focus
Clear Cell Focus
Deformity
Degeneration, Cystic
Eosinophilic Focus | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | X | + | + | + | + | X | X | X |
| | | | | | | | | | | | | | | | | | | | | | | | | |
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* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | 0 |
| | 5 | 5 | 6 | 6 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 5 | 7 | 6 | 6 | 5 | | | 6 | 6 | 7 | 7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 2 | 9 | 5 | 2 | 6 | 2 | 9 | 2 | 1 | 2 | 7 | 2 | 6 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 9 | 6 | 0 | 2 | |
| | 3 | 0 | 6 | 4 | 8 | 3 | 8 | 9 | 2 | 7 | 8 | 4 | 8 | 3 | 8 | 8 | 8 | 0 | 4 | 7 | 0 | 3 | 9 | 2 | 8 | |
| | 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | |
| | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 4 | 4 | 5 | 4 | 5 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | 7 | 8 | |
| | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | 1 | | | | | | | | | | | | | 2 | | | | | 2 | 1 | | | | | | |
| Hepatodiaphragmatic Nodule
Inflammation, Chronic Active
Mixed Cell Focus
Pigmentation
Polyarteritis | X | | | | | | X | | | | | | | | | X | X | | | | | | | | | |
| Tension Lipidosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | 4 | 1 | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Biliary Tract, Cyst Multilocular
Bile Duct, Biliary Tract, Hyperplasia | 1 | | 1 | | 2 | | | | | | 1 | 1 | 2 | | 1 | | 1 | | 1 | | 2 | 1 | 2 | 1 | 1 | |
| Capsule, Infiltration Cellular,
Polymorphonuclear
Capsule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration
Centrilobular, Hepatocyte, Necrosis | | | | 2 | | | | | | | | | | | | | | 2 | | | 2 | | 2 | | | |
| Hepatocyte, Necrosis
Oval Cell, Hyperplasia
Periportal, Vacuolization Cytoplasmic | | 1 | | | | | | | | | 1 | 2 | | | | | | | 2 | | | | | 2 | 2 | |
| Mesentery | | | | | | | | | | + | + | | | + | | | | | + | | | + | | | | |
| Accessory Spleen
Fat, Hemorrhage
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 4 | 4 | | | 4 | | | | | 4 | | | 4 | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 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 |
| | 5 | 5 | 6 | 6 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 5 | 7 | 6 | 6 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 0 | 2 | 9 | 5 | 2 | 6 | 2 | 9 | 2 | 1 | 2 | 7 | 2 | 6 | 2 | 2 | 2 | 8 | 2 | 2 | 9 | 6 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 3 | 0 | 6 | 4 | 8 | 3 | 8 | 9 | 2 | 7 | 8 | 4 | 8 | 3 | 8 | 8 | 8 | 0 | 4 | 7 | 0 | 3 | 9 | 2 | 2 | 8 | 2 | 8 | 2 | 8 |
| FISCHER 344 RATS-NCTR RATS MALE
0 Vehicle 104 wk | 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 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 4 | 4 | 5 | 4 | 5 | 6 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 8 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | 3 | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | 1 | 2 | | | | | 1 | | | | | | | 1 | | | | | | | | 2 | 2 | | | | | | | | | | | | | | |
| Artery, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | | | | | | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | 1 | 2 | | | 1 | | | | | | | | | | | | | | | | | | | | | 4 | 4 | | |
| Necrosis | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Epithelium, Hyperplasia | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3 | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 053 | 050 | 066 | 064 | 072 | 073 | 067 | 069 | 062 | 071 | 078 | 064 | 078 | 053 | 078 | 058 | 066 | 064 | 057 | 066 | 066 | 079 | 063 | 079 | | |
| | 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 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | 3 | 2 | | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 3 | 3 | 1 | | 3 | 2 | 2 | 3 | 2 | 3 | 3 | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Thrombosis | | | | | X | | | | | | X | | | | | | | | X | X | | | | | |
| Atrium, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myocardium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | 3 | | | | | | | | 2 | | | | | | | | | | | | 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 3 | 3 | 1 | 4 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | | 2 | 3 | 2 | 2 | | 3 | 1 | 4 | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | 1 | | | | 2 | | 1 | 2 | 2 | | | 2 | 3 | | | 3 | 1 | | | | 2 | | 2 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | X |

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
| | 0
5
0
3 | 0
5
2
0 | 0
6
9
6 | 0
6
5
4 | 0
7
2
8 | 0
5
6
3 | 0
7
2
8 | 0
6
9
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Islets, Pancreatic Hyperplasia + 3

Parathyroid Gland Angiectasis Hyperplasia + 1 1 1 3 2

Pituitary Gland Hemorrhage Pigmentation Pars Distalis, Angiectasis Pars Distalis, Cyst Pars Distalis, Hyperplasia Pars Intermedia, Cyst Pars Nervosa, Hyperplasia Rathke's Cleft, Cyst + 4 X 2 1 2

Thyroid Gland C-cell, Hyperplasia Follicle, Cyst + 2 1 1 1 2 2 1 2 1 1 1 2 2 X

GENERAL BODY SYSTEM

Peritoneum +

Tissue NOS Hemorrhage Necrosis

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
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GENITAL SYSTEM

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|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exfoliated Germ Cell | | 3 | | | 2 | | | 1 | | | | | | 2 | | | | | 4 | | | | | | | 2 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypospermia | | | | 4 | 3 | | 4 | | | | 4 | 4 | | 4 | | | | 4 | | 4 | 4 | 4 | 3 | | | |
| Epithelium, Degeneration | | | | 4 | 2 | | 3 | 2 | | | 3 | 2 | | 2 | | | | 4 | | | 4 | 2 | 2 | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | | | | 4 | | 4 | | | | 4 | 4 | | | | | | 4 | | | | | | | | | |
| Fibrosis | | | | | | | | 2 | | | 2 | 3 | 2 | | 2 | | | | | 2 | | 2 | 3 | 3 | 2 | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | 4 | 4 | 2 | 4 | 4 | | 4 | | 4 | | | | 3 | 3 | | | | 4 | 4 | | | | 4 | 3 | |
| Inflammation, Chronic Active | 4 | | | | | | | | 1 | | | 4 | 2 | | | | | 2 | 4 | | | 2 | 2 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Ectasia | | 3 | | | 4 | 4 | | | | 4 | | | 4 | 2 | 3 | 4 | 4 | | | | 3 | 2 | 2 | 4 | 3 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | 3 | 3 | 2 | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | 2 | | | | | | | | | | 2 | | | | | | 3 | | | 2 | 2 | 2 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 3 | 2 | 1 | | 2 | 2 | 3 | 2 | 2 | | | | 2 | | 1 | | 1 | 2 | | 2 | 2 | 2 | | 1 | 2 | |
| Inflammation, Chronic Active | | | | | | | | | | 4 | 1 | | | | | 3 | | | | | | 2 | | 1 | | |
| Epithelium, Hyperplasia | | | 2 | | | 1 | 2 | | | | 1 | | | 2 | 4 | | 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

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

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 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
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| Seminal Vesicle | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 2 | | 4 | | | | | | | 2 | 3 | 3 | | 2 | | | 3 | | | | 3 | 3 | 2 | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative
Lumen, Dilatation | | | | | | | | | | | 3 | | | | | 2 | | 2 | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | 1 | 2 | 2 | | | | | 2 | | | | | 2 | | | | | 1 | 2 | |
| Interstitial Cell, Hyperplasia | 1 | 2 | 2 | 1 | | 1 | 2 | 1 | | 1 | 1 | 1 | | 2 | | | 1 | | 2 | | | 2 | | | | |
| Seminiferous Tubule, Degeneration | | 3 | 1 | 4 | 3 | | 4 | 2 | | 1 | 4 | 2 | 4 | 2 | 4 | | 2 | 4 | 1 | | 4 | 4 | 4 | 3 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | 4 | | | | | | | 4 | | | | 2 | 3 | | | 4 | | 4 | | | | 2 | |
| Lymph Node | | | | + | | | | | + | | | | + | | | + | + | | | + | + | + | + | + | |
| Axillary, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Infiltration Cellular,
Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|
| | 0503 | 0503 | 0606 | 0606 | 0707 | 0705 | 0707 | 0606 | 0606 | 0707 | 0707 | 0606 | 0707 | 0505 | 0707 | 0505 | 0707 | 0606 | 0606 | 0505 | | | 0606 | 0606 | 0707 | 0707 |
| Cyst | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | 4 | | | | | | | | | | | | | 2 | | | | | | | | | | 4 | | |
| Hematopoietic Cell Proliferation | | | 4 | | 2 | | 2 | 3 | 2 | 2 | 2 | | 1 | 2 | | | | | 3 | | 3 | | | 2 | 1 | |
| Hyperplasia, Lymphoid | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | 2 | 3 | | | 2 | | | 3 | | | | | 2 | 3 | | | | 3 | 2 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | | | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Galactocele | | | | | | X | X | X | X | X | | X | | | | | X | | X | X | X | | X | X | X | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 4 | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Dilatation | | | 2 | 2 | 2 | | | | | | | 2 | 2 | | | | | 3 | | | 3 | 4 | | | | |
| Epithelium, Hyperplasia | | | | | | | 2 | | | | 2 | | | | | | | 2 | | | | | | | 1 | |
| Lobular, Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | 3 | 4 | 1 | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | | 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 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS MALE | | 5 | 5 | 6 | 6 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 5 | 7 | 6 | 6 | 5 | 6 | 6 | 7 | 7 | 7 |
| | 0 Vehicle 104 wk | 0 | 2 | 9 | 5 | 2 | 6 | 2 | 9 | 2 | 1 | 2 | 7 | 2 | 6 | 2 | 2 | 2 | 8 | 8 | 2 | 2 | 9 | 6 | 0 | 2 |
| | | 3 | 0 | 6 | 4 | 8 | 3 | 8 | 9 | 2 | 7 | 8 | 4 | 8 | 3 | 8 | 8 | 8 | 0 | 4 | 7 | 0 | 3 | 9 | 2 | 8 |
| | 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 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 4 | 4 | 5 | 4 | 5 | 6 | 6 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | 7 | 8 |
| | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 |
| males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | |

Epithelium, Hyperplasia

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rib, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tibia, Deformity | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brain, Brain Stem | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 X .. Lesion present
 I .. Insufficient tissue

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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|------------------|------------------|------------------|------------------|
| | 0
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0
3 | 0
5
2
0 | 0
6
9
6 | 0
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4 | 0
7
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8 | 0
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3 | 0
7
2
8 | 0
6
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9 | 0
6
2
2 | 0
7
1
7 | 0
7
2
8 | 0
6
7
4 | 0
7
2
8 | 0
5
6
3 | 0
7
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8 | 0
5
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8 | 0
6
8
0 | 0
6
2
4 | 0
5
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7 | 0
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9
0 | | | 0
6
6
3 | 0
7
0
9 | 0
7
2
2 | 0
7
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8 |
| | 0
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1 | 0
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2 | 0
3
3
4
1 | 0
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9 | 0
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9 | 0
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6 | 0
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6 | 0
3
3
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7 | 0
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9 | 0
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9 | 0
3
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0 | 0
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1 | 0
3
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8
1 | 0
3
3
8
2 | 0
4
8
6 | 0
4
0
6 | 0
4
0
7 | 0
4
0
8 | 0
4
0
8 |

Hemorrhage
 Mineralization
 Necrosis
 Ventricle, Dilatation

3 1 1 2

Peripheral Nerve
 Spinal Cord, Cervical
 Spinal Cord, Lumbar
 Spinal Cord, Thoracic

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Crystals | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Histiocytosis | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | 2 | | | | | 2 | 1 | | 1 | | | | 1 | | | 3 | 2 | | 3 | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Mediastinum, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE
0 Vehicle 104 wk | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|-------------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|----|
| | ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | 24 |
| | 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 |
| | 5 | 5 | 6 | 6 | 7 | 5 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 5 | 7 | 6 | 6 | 5 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 0 | 2 | 9 | 5 | 2 | 6 | 2 | 9 | 2 | 1 | 2 | 7 | 2 | 6 | 2 | 2 | 2 | 8 | 8 | 2 | 2 | 9 | 6 | 0 | 2 | 2 |
| | 3 | 0 | 6 | 4 | 8 | 3 | 8 | 9 | 2 | 7 | 8 | 4 | 8 | 3 | 8 | 8 | 8 | 0 | 4 | 7 | 0 | 3 | 9 | 2 | 8 | 8 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | X | | | | | | | | | | | | | | | | | | | | X | | | |
| Inflammation, Suppurative | | | 2 | | | | | | | | | | | | | | | 1 | | | | 1 | | | | |
| Goblet Cell, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | 4 | | | | | | | | | 2 | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | 1 | | | | | | | | | | | 1 | | 1 | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | + | | | | | | + | | | | | | | |
| Abscess | | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keratin Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0634 | 0552 | 0728 | 0667 | 0668 | 0554 | 0668 | 0553 | 0728 | 0664 | 0667 | 0559 | 0661 | 0720 | 0722 | 0665 | 0729 | 0729 | 0551 | 0557 | 0664 | 0728 | 0346 | 0365 | |
| ANIMAL ID | 04082 | 04131 | 04111 | 04111 | 04111 | 04111 | 04111 | 04122 | 04122 | 04122 | 04133 | 04133 | 04133 | 04133 | 04133 | 04188 | 04177 | 04188 | 04122 | 04144 | 04144 | 04144 | 04144 | 04155 | 04155 |
| | 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 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Lumen, Dilatation | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | A | + | + | + | 140 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | 143 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | A | + | + | + | 143 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | 144 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mucosa, Hyperplasia | | | | | | | | 2 | | | 2 | | 2 | | | | | | | | | | | | 8 2.4 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | A | + | + | 139 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | A | + | + | 140 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 149 |
| Basophilic Focus | | | | | | | | | | | | | | X | | | | | | | | | X | | 28 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | X | | | | 6 |
| Deformity | | | | | | X | | | | | | | | | X | | | | | | | | | | 5 |
| Degeneration, Cystic | | | 3 | | 1 | | 1 | | | | | | | | | | | 2 | | | | | | | 25 1.6 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|----------|
| | 0634 | 0552 | 0728 | 0676 | 0694 | 0582 | 0664 | 0583 | 0728 | 0664 | 0559 | 0551 | 0770 | 0772 | 0665 | 0577 | 0723 | 0557 | 0567 | 0672 | 0348 | 0724 | 0364 | 0653 | | |
| ANIMAL ID | 04082 | 04131 | 04113 | 04111 | 04111 | 04111 | 04111 | 04122 | 04122 | 04122 | 04133 | 04133 | 04133 | 04133 | 04133 | 04144 | 04144 | 04144 | 04144 | 04144 | 04144 | 04155 | 04155 | 04155 | | |
| Fibrosis | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Granuloma | | | | | | | 1 | | | | | | 3 | | | | | 1 | | 1 | | | | 1 | 27 1.2 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Inflammation, Chronic Active | | | 4 | | 3 | | | | | | | | | | | | | | | | | | | | 5 2.0 | |
| Mixed Cell Focus | | | | | | | | | | | | X | | | X | | | | | | | | | | 7 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Polyarteritis | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Tension Lipidosis | | 3 | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 | |
| Thrombosis | | | X | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Vacuolization Cytoplasmic | 1 | 2 | 4 | 4 | | | | | | 2 | | | | | | | | | | | | | 2 | 23 2.3 | | |
| Bile Duct, Biliary Tract, Cyst Multilocular | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Bile Duct, Biliary Tract, Hyperplasia | 1 | 1 | 2 | | | | 2 | | 1 | | 2 | 1 | | 2 | 2 | | 1 | 2 | 1 | | 1 | | 1 | 89 1.4 | | |
| Capsule, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | 4 | | | | | | | | 1 4.0 | |
| Capsule, Pigmentation | | | | | | | | | | | | | | | | 4 | | | | | | | | | 1 4.0 | |
| Centrilobular, Hepatocyte, Degeneration | | | | | 3 | | 3 | | | | 3 | | | 3 | 3 | | | | | | 4 | | 4 | 29 2.7 | | |
| Centrilobular, Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | 4 | | | | 1 4.0 | |
| Hepatocyte, Necrosis | | | 4 | | 3 | | | | | 3 | | | | | | | | | | | | | | | 12 2.1 | |
| Oval Cell, Hyperplasia | | | 2 | | | | | | | | | | | | 2 | 2 | | | | | | | | | 14 2.2 | |
| Periportal, Vacuolization Cytoplasmic | | | | | | | | 2 | | | | 3 | | | | | | | | | | | | | 34 1.9 | |
| Mesentery | | | | | + | + | | | | + | + | | | | + | | + | + | | + | | + | | 31 | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | X | | | | | | 1 | | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Fat, Necrosis | | | | 3 | 3 | | | | | 4 | 4 | | | | 4 | | 4 | | | 3 | | 4 | | 28 3.8 | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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MALE
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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|-----|--|
| | 0634 | 0552 | 0728 | 0676 | 0669 | 0548 | 0662 | 0553 | 0722 | 0668 | 0651 | 0770 | 0677 | 0665 | 0756 | 0772 | 0553 | 0557 | 0664 | 0722 | 0343 | 0742 | 0386 | 0635 | | | | |
| ANIMAL ID | 04082 | 04131 | 04113 | 04111 | 04111 | 04111 | 04111 | 04122 | 04122 | 04122 | 04133 | 04133 | 04133 | 04133 | 04133 | 04133 | 04144 | 04144 | 04144 | 04144 | 04144 | 04144 | 04155 | 04155 | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Acinar Cell, Hyperplasia | | | | | | 4 | | | 2 | | | | | 2 | | | | | | | 3 | 3 | | | 26 | 2.6 | | |
| Acinus, Degeneration | 2 | | 2 | | | | | | 2 | 2 | | | | | 2 | | | | | | 1 | | | | 32 | 1.8 | | |
| Artery, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 149 | | | |
| Edema | | | 4 | 3 | 2 | | 3 | | | 4 | | | | | | | | | | | | | | | 27 | 3.0 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Inflammation, Chronic Active | | | 4 | 2 | 3 | | 4 | | | | 3 | | 2 | | | | | | | 1 | | | | | 33 | 2.5 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Perforation | | | | | 4 | | | | | | | | | | | | | | | | | | | | 5 | 4.0 | | |
| Ulcer | | | 2 | | | | | | | | 4 | | | | | | | | | | | | | | 13 | 3.2 | | |
| Epithelium, Hyperplasia | | | 4 | 2 | 4 | | 4 | | | | 3 | | 4 | | | | | | | 2 | | | 2 | | 41 | 2.6 | | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.7 | | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | 146 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Inflammation, Chronic Active | | | | 2 | | | | 4 | | | | | | | | | | | | | | | | | | 3 | 3.0 | |
| Ulcer | | | | | | | | | 4 | | | | | | | | | | | | | | | | | 2 | 3.0 | |
| Mucosa, Hyperplasia | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | 6 | 2.2 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0634 | 0552 | 0728 | 0676 | 0694 | 0582 | 0664 | 0583 | 0728 | 0664 | 0559 | 0651 | 0770 | 0772 | 0656 | 0579 | 0772 | 0553 | 0574 | 0628 | | 0736 | 0345 |
| ANIMAL ID | 04082 | 04131 | 04113 | 04111 | 04111 | 04111 | 04111 | 04122 | 04122 | 04122 | 04133 | 04133 | 04133 | 04133 | 04133 | 04144 | 04144 | 04144 | 04144 | 04144 | 04144 | 04155 | 04155 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Cardiomyopathy | 2 | | 2 | 2 | | 2 | | 2 | 1 | 2 | | 2 | 3 | | 4 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 134 2.3 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Thrombosis | | | | | | | | | | X | | X | | | X | | X | | | | X | | X | 22 |
| Atrium, Dilatation | | | 4 | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Myocardium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pericardium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Ventricle, Dilatation | | | | | | 4 | | | | | | 4 | | | | | | | | | | | | 2 4.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Fibrosis | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 |
| Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | 10 2.3 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Thrombosis | | | | | | | | | | | | | | | X | | | | | | | | | 2 |
| Vacuolization Cytoplasmic | 1 | 1 | 2 | 2 | 3 | 2 | 4 | | | 3 | 3 | 2 | | 3 | 4 | | 2 | 2 | 2 | | | 3 | 3 | 121 2.3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hyperplasia | 4 | | 2 | 1 | 1 | | | | 1 | | | 1 | | 2 | 2 | | | 2 | 2 | | | 2 | 2 | 67 1.9 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|-------|------|
| | 0634 | 0552 | 0778 | 0667 | 0668 | 0554 | 0668 | 0553 | 0778 | 0664 | 0667 | 0559 | 0661 | 0772 | 0775 | 0666 | 0557 | 0773 | 0553 | 0667 | | | 0773 | 0668 | 0773 | 0666 | 0553 |
| ANIMAL ID | 04082 | 04413 | 04432 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | 04441 | | |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.3 | | |
| Parathyroid Gland Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 149 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| | | | 1 | | | | 1 | | 2 | 2 | | | | | | | | | 1 | | | | 2 | | 38 1.5 | | |
| Pituitary Gland Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 3 4.0 | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Pars Distalis, Cyst | X | | | | | | | X | | | | | | | | | | | X | | | | | | 12 3.0 | | |
| Pars Distalis, Hyperplasia | | 2 | | | | | 3 | | | | | | | | 2 | | | | | | | | | | 27 2.1 | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Pars Nervosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Rathke's Cleft, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | |
| Follicle, Cyst | | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | | | 1 | 2 | 1 | 1 | | | X | | | | 95 1.5 | | |
| | | | | | | | | | X | | | | | | | | | | | | | | X | | 8 | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Tissue NOS Hemorrhage | | | | | | | | | | | | | | + | | | | | | | | | | | | 2 | |
| Necrosis | | | | | | | | | | | | | | 4 | | | | | | | | | | | | 1 4.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0634 | 0552 | 0728 | 0676 | 0669 | 0548 | 0652 | 0573 | 0678 | 0662 | 0559 | 0651 | 0770 | 0772 | 0665 | 0579 | 0723 | 0557 | 0664 | 0728 | | 0346 | 0674 | 0356 |
| ANIMAL ID | 04082 | 04131 | 04113 | 04111 | 04111 | 04111 | 04111 | 04122 | 04122 | 04122 | 04133 | 04133 | 04133 | 04133 | 04133 | 04133 | 04144 | 04144 | 04144 | 04144 | 04144 | 04144 | 04155 | 04155 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|------------|------------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 149 | |
| Exfoliated Germ Cell | | | | 2 | | | | | | 2 | 3 | | | | 3 | | | | 1 | 2 | | 2 | | 3 | 39 | 2.4 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | 2.5 |
| Hypospermia | | | 4 | 3 | 4 | 4 | 4 | | 4 | | 4 | | 4 | 3 | 4 | | | | 3 | | 4 | 4 | | 4 | 78 | 3.8 |
| Epithelium, Degeneration | | | 3 | | 4 | | 3 | | 3 | 2 | 3 | | | 4 | | | | | | 2 | | 4 | | 3 | 64 | 2.9 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 4.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | |
| Abscess | | | | 4 | | | | | | | | 4 | | 4 | | | | | | | | | | | 17 | 4.0 |
| Fibrosis | 2 | | 3 | 3 | 3 | | 2 | | 3 | 2 | 3 | 2 | | 3 | 2 | 3 | | 2 | 2 | 3 | 2 | 4 | 2 | | 72 | 2.6 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 4.0 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 4.0 |
| Inflammation, Suppurative | | | | | | 4 | 2 | 3 | 4 | 4 | 2 | | 4 | | 3 | | | 4 | | | 4 | | 2 | | 61 | 3.5 |
| Inflammation, Chronic Active | 2 | 2 | 3 | | 3 | | | | | | | | 2 | | | | 2 | 1 | | 2 | 4 | | 2 | 4 | 66 | 2.5 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3.0 |
| Acinus, Hyperplasia | | | 4 | | | | | | | | | | | | | | | | | | | | | 5 | 5 | 3.2 |
| Duct, Ectasia | | | | | | 3 | 2 | 4 | 4 | 3 | | | 4 | | 3 | 2 | 2 | 3 | 2 | | 4 | | | 3 | 81 | 3.1 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 2.7 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 149 | |
| Atrophy | | | | | | | | | | | | | 2 | | 2 | | | | | | 2 | | | | 27 | 2.4 |
| Degeneration, Cystic | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | 5 | 5 | 2.0 |
| Fibrosis | | | | 4 | | | | | 4 | | 4 | | | | | | 4 | | | | | | | 5 | 5 | 3.8 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2.0 |
| Inflammation, Suppurative | | | | 4 | 3 | | | | 2 | 4 | 2 | | 3 | | 2 | | 4 | 2 | 2 | | 1 | | 2 | 4 | 100 | 2.1 |
| Inflammation, Chronic Active | | | 2 | | | | 2 | | | | | 3 | | | | | | | | | | | | 21 | 21 | 2.0 |
| Epithelium, Hyperplasia | | | 2 | 3 | 3 | | | | 2 | 2 | | 1 | 2 | | | | | | | | 2 | | | 40 | 40 | 2.0 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
6
3
4 | 0
5
5
2 | 0
7
2
8 | 0
6
7
6 | 0
6
9
8 | 0
5
4
2 | 0
6
8
4 | 0
5
2
3 | 0
7
2
8 | 0
6
2
4 | 0
5
9
7 | 0
5
6
1 | 0
7
0
2 | 0
7
0
2 | 0
6
7
5 | 0
5
0
6 | 0
7
2
9 | 0
5
3
1 | 0
5
7
0 | 0
6
4
3 | | 0
7
2
8 | 0
3
4
6 | 0
6
5
3 |
| ANIMAL ID | 0
4
0
8
2 | 0
4
1
3
1 | 0
4
1
3
2 | 0
4
1
4
1 | 0
4
1
4
2 | 0
4
1
5
2 | 0
4
1
6
1 | 0
4
1
6
2 | 0
4
2
8
1 | 0
4
2
8
2 | 0
4
2
9
2 | 0
4
3
9
0 | 0
4
3
9
6 | 0
4
3
9
1 | 0
4
3
8
2 | 0
4
3
7
2 | 0
4
4
8
1 | 0
4
4
9
2 | 0
4
4
8
1 | 0
4
4
9
2 | 0
4
4
8
2 | 0
4
4
9
1 | 0
4
5
9
0 | 0
4
5
9
2 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | 143 | |
| Atrophy | | | 4 | 2 | 3 | | 3 | | 2 | 2 | | | 3 | 2 | 3 | | | | | 2 | | 4 | | | 51 | 2.7 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | 4 | | | | | | | | 2 | | | 2 | 3.0 |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 2.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Polyarteritis | | | | | | | | | | | 2 | | | | | | | | 2 | | | | | 28 | 1.7 | |
| Interstitial Cell, Hyperplasia | 2 | | | 1 | | 1 | 2 | 2 | | 2 | | 1 | | | | | | | 2 | | | | 1 | 3 | 71 | 1.5 |
| Seminiferous Tubule, Degeneration | | 2 | 4 | 2 | 4 | 4 | 4 | | 4 | 2 | 4 | 1 | | 4 | 4 | 4 | | 2 | 4 | 4 | 4 | | 4 | 4 | 116 | 3.2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 148 | |
| Fibrosis | | | | | | | | | | | | | 4 | 4 | | | | | | | | | | 3 | 3.3 |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Myeloid Cell, Hyperplasia | | | 1 | | | 2 | | 4 | 3 | 3 | | | | | 4 | 2 | 2 | | | | 3 | | | 36 | 2.9 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|--|---|--|--|--|--|---|--|---|---|--|--|--|--|---|--|--|---|---|----|-----|
| Lymph Node | | + | + | + | | + | | | | | + | | + | + | | | | | A | | | | + | 59 | |
| Axillary, Hemorrhage | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Cervical, Hemorrhage | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Cervical, Hyperplasia, Lymphoid | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Cervical, Infiltration Cellular, Plasma Cell | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Hepatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Inguinal, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | 2 | | 3 | 2.0 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| | 0634 | 0552 | 0728 | 0676 | 0694 | 0548 | 0662 | 0553 | 0728 | 0664 | 0557 | 0651 | 0702 | 0702 | 0675 | 0506 | 0772 | 0533 | 0574 | 0678 | | 0346 | 0653 |
| ANIMAL ID | 04082 | 04131 | 04113 | 04111 | 04111 | 04111 | 04111 | 04122 | 04122 | 04122 | 04133 | 04133 | 04133 | 04133 | 04133 | 04144 | 04144 | 04144 | 04144 | 04144 | 04144 | 04155 | 04155 |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | 7 2.7 |
| Mediastinal, Hyperplasia, Lymphoid | | | 4 | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | 2 | | | | | | | | | | | | | | | | | | | | 4 2.3 |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | 2 | | | | | | | | | | 5 2.0 |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | 3 | | | | | | | | 2 | | 6 2.0 |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Renal, Hyperplasia, Lymphoid | | | | | | | 2 | | | | | | | | | | | | | | | | 4 2.3 |
| Renal, Infiltration Cellular, Plasma Cell | | | | | 3 | | | | | | | | | | | | | | | | | | 4 2.5 |
| Renal, Pigmentation | | | | | | 2 | | | | | | | | | | | | | | | | | 2 2.5 |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | 4 2.3 |
| Lymph Node, Mandibular Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Hyperplasia, Lymphoid | | | 4 | | | | | | | | | | 2 | | | | | | | | | | 7 2.9 |
| Infiltration Cellular, Plasma Cell | 2 | 2 | 4 | | | | | | | | | 1 | 2 | | | | | | | 1 | 1 | | 38 1.9 |
| Sinus, Dilatation | 3 | 2 | 4 | | | | 3 | | | | | 2 | 2 | | 2 | | | | | 2 | 2 | | 75 2.2 |
| | | | | | | | 3 | | | | | | | | | | | | | | | | 34 2.1 |
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 147 |
| Hyperplasia, Lymphoid | | | | | 2 | 1 | | | | | 2 | | | | | 2 | | | 1 | 1 | | | 42 1.6 |
| Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | 13 2.3 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | 4 3.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----------|
| | 0634 | 0552 | 0728 | 0676 | 0694 | 0582 | 0664 | 0523 | 0728 | 0664 | 0552 | 0551 | 0770 | 0772 | 0665 | 0577 | 0775 | 0553 | 0574 | 0672 | 0342 | 0734 | 0365 | 0633 | | |
| ANIMAL ID | 04082 | 04131 | 04111 | 04111 | 04111 | 04111 | 04111 | 04122 | 04122 | 04122 | 04133 | 04133 | 04133 | 04133 | 04133 | 04133 | 04133 | 04144 | 04144 | 04144 | 04144 | 04144 | 04155 | 04155 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fibrosis | | | | | | | | | | | | | 3 | | | | | | | | | | | | 7 3.3 | |
| Hematopoietic Cell Proliferation | | | | 2 | 2 | | 1 | | 3 | | 4 | | 2 | 2 | | 4 | | | | 1 | 4 | | 1 | 4 | 52 2.3 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 | |
| Pigmentation | | 2 | | 4 | 4 | | | | | 3 | | 2 | | 3 | | | 3 | | 2 | | 3 | | 2 | 2 | 67 2.6 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | 144 | |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 136 4.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Galactocele | | | X | X | | | | | X | X | X | X | X | X | | X | | X | | | | | X | 75 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pigmentation | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 2.0 |
| Alveolus, Dilatation | | 2 | | | 3 | | | | | | | | | | | | | | | | 2 | 2 | | 33 2.3 |
| Epithelium, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | | 9 1.7 |
| Lobular, Hyperplasia | | | | | | | | | 2 | | | | | 4 | | | | | | | | 4 | | 13 3.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Abscess | | | | | | | | | | 4 | | | | | | | | | | | | | | 2 4.0 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | 3 | | | | 3 3.3 |
| Hyperkeratosis | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0 Vehicle 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0634 | 0552 | 0728 | 0676 | 0668 | 0542 | 0654 | 0568 | 0723 | 0664 | 0657 | 0551 | 0702 | 0772 | 0665 | 0773 | 0551 | 0773 | 0556 | 0674 | | 0738 | 0346 | 0653 |
| ANIMAL ID | 04082 | 04131 | 04113 | 04111 | 04111 | 04111 | 04111 | 04122 | 04122 | 04122 | 04133 | 04133 | 04133 | 04133 | 04133 | 04133 | 04133 | 04144 | 04144 | 04144 | 04144 | 04144 | 04155 | 04155 |
| Epithelium, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | |
| Rib, Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Tibia, Deformity | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | 4 | 4 | 2 | | 2 | | | 3 | 2 | 4 | 2 | | 3 | | 2 | 2 | 2 | | | | 4 |
| Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS |
|-------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|
| | 0634 | 0552 | 0728 | 0676 | 0668 | 0542 | 0684 | 0583 | 0728 | 0664 | 0657 | 0551 | 0702 | 0772 | 0665 | 0579 | 0723 | 0551 | 0570 | 0663 | 0742 | 0328 | 0646 | 0365 | | |
| 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 | 04082 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.7 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 18 | 1.4 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | |
| Crystals | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.0 |
| Histiocytosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 35 | 1.8 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| Mediastinum, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|-----------------------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|--------|--|
| | 0634 | 0552 | 0728 | 0667 | 0668 | 0548 | 0654 | 0563 | 0728 | 0662 | 0667 | 0551 | 0700 | 0702 | 0665 | 0570 | 0722 | 0729 | 0553 | 0557 | | 0664 | 0738 | 0345 | 0653 | | |
| ANIMAL ID | 0 Vehicle 104 wk | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04082 | 04131 | 04113 | 04111 | 04111 | 04111 | 04111 | 04122 | 04122 | 04122 | 04122 | 04133 | 04133 | 04133 | 04133 | 04133 | 04144 | 04144 | 04144 | 04144 | 04144 | 04144 | 04155 | 04155 | 04155 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 149 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | X | X | | | 11 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | 19 1.6 | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | 144 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Cornea, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 10 2.6 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 6 1.5 | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Zymbal's Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 6 | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| Keratin Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 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
 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS
MALE | 0 Vehicle 104 wk | 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 |
| | | 6 | 5 | 7 | 6 | 6 | 5 | 6 | 5 | 7 | 6 | 6 | 5 | 5 | 7 | 7 | 6 | 5 | 7 | 7 | 5 | | 5 | 6 | 7 | 3 | 6 |
| | | 3 | 5 | 2 | 7 | 9 | 4 | 8 | 2 | 2 | 2 | 9 | 6 | 1 | 0 | 0 | 7 | 0 | 2 | 2 | 3 | 7 | 4 | 2 | 4 | 5 | |
| | | 4 | 2 | 8 | 6 | 8 | 2 | 4 | 3 | 8 | 4 | 7 | 9 | 1 | 2 | 2 | 5 | 6 | 9 | 9 | 1 | 0 | 3 | 8 | 6 | 3 | |
| | 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 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | |
| | | 8 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 8 | 8 | 9 | 0 | 6 | 7 | 8 | 8 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 0 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | |
| Casts Protein | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Cyst | | | | | | | | X | | | | | | | | | | | | | | | | | | 4 | |
| Hydronephrosis | | | | | | | | 2 | | | | | 1 | 1 | | | | | | | | | | 1 | | 12 | 1.4 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Nephropathy | 2 | 2 | 4 | 4 | 4 | 3 | 4 | 2 | 3 | 4 | 2 | 4 | 3 | 4 | 2 | 1 | 1 | 4 | 4 | 4 | 2 | 2 | 4 | 1 | 3 | 148 | 3.2 |
| Pigmentation | | | | | | | | | | | | | | | 3 | 4 | | | | | | | | | | 3 | 3.7 |
| Pelvis, Inflammation, Suppurative | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | 2 | 1 | | 2 | | | | | | | | | | | | 2 | | | | | | 27 | 1.4 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | |
| Lumen, Dilatation | | | | | | | | | | | | | | 4 | | | | 4 | | | 4 | | | | | 11 | 3.9 |
| Transitional Epithelium, Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |

* .. 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

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

Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|-------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|
| | 0725 | 0729 | 0729 | 0649 | 0541 | 0666 | 0667 | 0773 | 0552 | 0375 | 0778 | 0778 | 0529 | 0551 | 0660 | 0664 | 0664 | 0772 | 0772 | 0550 | 0778 | 0674 | 0779 | 0451 | | | 0667 |
| 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 | 000082 | |
| 7 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 5 | 3 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 4 | 6 | 6 | 000081 | |
| 2 | 2 | 2 | 4 | 4 | 9 | 4 | 2 | 7 | 5 | 0 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 8 | 8 | 2 | 5 | 6 | 000080 | |
| 5 | 9 | 9 | 9 | 1 | 6 | 7 | 3 | 5 | 2 | 8 | 8 | 9 | 1 | 0 | 0 | 4 | 8 | 8 | 0 | 8 | 4 | 9 | 1 | 7 | 000079 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epithelium, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | X | | | | | | | | | | | | | | | | X | X | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0725 | 0729 | 0729 | 0649 | 0544 | 0669 | 0667 | 0773 | 0552 | 0375 | 0778 | 0778 | 0559 | 0551 | 0660 | 0660 | 0664 | 0778 | 0778 | 0550 | 0778 | 0668 | 0779 | 0461 | | |
| Clear Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deformity | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | | | | 1 | 2 | | 1 | | | | | 2 | | 1 | | | | 2 | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | 1 | | | | | | 3 | | | | | | | | |
| Mixed Cell Focus | | | | | | X | | | | | X | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | 1 | | | | | | | | | | | 1 | | | | | | | |
| Bile Duct, Biliary Tract, Hyperplasia | | 1 | 1 | 1 | 1 | 1 | 1 | | 3 | | 1 | 2 | | 1 | | 2 | | 2 | | | | | 2 | 1 | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | | | |
| Centrilobular, Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Periportal, Vacuolization Cytoplasmic | | | 2 | | | 2 | | | | | | | | | | 2 | | 3 | | | | | | 2 | 3 | |
| Mesentery | + | + | | | | | | | | + | | | | | | | | | + | | | | | + | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 4 | 4 | | | | | | | | 4 | | | | | | | | | 3 | | | | | 4 | | |

* .. 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

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

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 |
| | 7 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 5 | 3 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 4 | 6 |
| | 2 | 2 | 2 | 4 | 4 | 9 | 4 | 2 | 7 | 5 | 0 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 5 | 2 | 8 | 2 | 5 | 6 |
| | 5 | 9 | 9 | 9 | 1 | 6 | 7 | 3 | 5 | 2 | 8 | 8 | 9 | 1 | 0 | 0 | 4 | 8 | 8 | 0 | 8 | 4 | 9 | 1 | 7 |
| | 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 |
| | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 9 | 9 | 0 | 0 | 1 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 6 | 7 | 8 | 8 | 9 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 |

Oral Mucosa

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | 2 | | 2 | | | | | | | 2 | | | 2 | | | | 2 | | | | | |
| Acinus, Degeneration | | | 2 | 1 | | | | 2 | 2 | 1 | | | 1 | | | | | | | | | 2 | | | |
| Artery, Hyperplasia | | | | | | | | | | | | | | | | | 4 | | | | | | | | |

Salivary Glands

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | 1 | 4 | | | | | | | | 4 |
| Inflammation, Chronic Active | | | | | | | | 2 | | | | | | | 2 | 4 | | | | | | | | | 4 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Ulcer | | | | 2 | | | | | | | | | | | 2 | 4 | | | | | | | | | |
| Epithelium, Hyperplasia | | | | 2 | | | | 2 | | | | | | | 1 | 4 | | | | | | | | | 4 |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

Stomach, Glandular

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edema | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | 2 | | | | | | | | | | | | | 2 | | | | | | | | 2 |

* .. 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
 1-4 .. Lesion qualified as:
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 2) Mild 4) Marked

Experiment Number: 10119 - 01
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | |
| | 7 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 5 | 3 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 4 | 6 |
| | 2 | 2 | 2 | 4 | 4 | 9 | 4 | 2 | 7 | 5 | 0 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 5 | 2 | 8 | 2 | 5 | 6 |
| | 5 | 9 | 9 | 9 | 1 | 6 | 7 | 3 | 5 | 2 | 8 | 8 | 9 | 1 | 0 | 0 | 4 | 8 | 8 | 0 | 8 | 4 | 9 | 1 | 7 |
| | 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 |
| | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 9 | 9 | 0 | 0 | 1 | 6 | 6 | 7 | 7 | 8 | 9 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 6 | 7 | 8 | 8 | 9 | 9 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | |

Tongue

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 2 | 2 | 1 | 3 | | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | X | | | | | | | | | | | X | | | | | X | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 2 | | 4 | 1 | | | 2 | 2 | | 4 | 2 | 2 | | 2 | 1 | 3 | | 2 | | | 2 | | 2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Furan
 CAS Number: 110-00-9

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 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|
| | 0
7
2
5 | 0
7
2
9 | 0
7
2
9 | 0
6
4
9 | 0
5
4
1 | 0
6
9
6 | 0
6
4
7 | 0
7
2
3 | 0
5
7
5 | 0
3
2
2 | 0
7
0
8 | 0
7
2
8 | 0
5
2
9 | 0
5
7
1 | 0
6
7
0 | 0
6
2
0 | 0
6
2
4 | 0
7
2
8 | 0
5
2
0 | 0
7
8
4 | | | 0
6
2
9 | 0
4
5
1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 1 | | | 3 | | | | 1 | 2 | | | 2 | | 2 | 1 | 1 | 3 | 2 | 3 | | 1 | 1 | 1 | 3 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 1 | | | | | | 2 | | | | 2 | | | | | | | 3 | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | 1 | | | | | | | | 2 | | | | | 1 | 1 | | | 1 | | 1 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 4 | | | | 4 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | X | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | 2 | | | | | | | | | | | | | | | | 2 | | | | | 2 | |
| Pars Distalis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectopic Thymus | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | | | 2 | 2 | 1 | | | 1 | 2 | | | 1 | | 1 | |
| Follicle, Cyst | | | | | | | | | X | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

Peritoneum
 Pigmentation

* .. 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

1-4 .. Lesion qualified as:
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 |
| | 7 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 5 | 3 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 4 | 6 |
| | 2 | 2 | 2 | 4 | 4 | 9 | 4 | 2 | 7 | 5 | 0 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 5 | 2 | 8 | 2 | 5 | 6 |
| | 5 | 9 | 9 | 9 | 1 | 6 | 7 | 3 | 5 | 2 | 8 | 8 | 9 | 1 | 0 | 0 | 4 | 8 | 8 | 0 | 8 | 4 | 9 | 1 | 7 |
| | 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 |
| | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 9 | 9 | 0 | 0 | 1 | 6 | 6 | 7 | 8 | 9 | 9 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 6 | 7 | 8 | 8 | 9 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | |

Tissue NOS

GENITAL SYSTEM

Ductus Deferens

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exfoliated Germ Cell | | | | | | 3 | | | | 2 | | 3 | | | | | | | | 2 | | 3 | 2 | |
| Hypospermia | 4 | 4 | 4 | | 4 | | 4 | | | 4 | | 3 | | | | | 4 | 4 | | 4 | | 4 | 3 | 3 |
| Epithelium, Degeneration | 3 | 4 | | | 2 | | | | | 2 | | | | 1 | | | 2 | | | 3 | | 2 | 2 | 2 |

Preputial Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|--|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abscess | | | | | | | | | | | | | | | | | | | 4 | 4 | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | 2 | | 3 | | 3 | | | | 3 |
| Inflammation, Suppurative | | | | 3 | 4 | 4 | 3 | | 4 | 3 | | | 3 | | | | | | | 4 | 4 | 3 | | |
| Inflammation, Chronic Active | 4 | 2 | 3 | | | | | | 2 | | | 3 | 2 | | 2 | 4 | 2 | | | | | | 3 | 3 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | 2 | 4 | | |
| Duct, Ectasia | 2 | | | 3 | 4 | | 4 | | 4 | 2 | | | | 2 | 3 | 2 | 2 | | 4 | 2 | 4 | 4 | 2 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |

Prostate

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | 3 | 3 | | | | | | | | | | | | 3 | | | | | | | | 2 | 3 | |
| Degeneration, Cystic | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 1 | | | 1 | 2 | 4 | 2 | 2 | 2 | 2 | 4 | 1 | 2 | | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 3 | 2 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | 2 | | | | | | | | 2 | | |

* .. 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

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 7 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 5 | 3 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 4 | 6 | | |
| 2 | 2 | 2 | 4 | 4 | 9 | 4 | 2 | 7 | 5 | 0 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 2 | 8 | 5 | 6 | |
| 5 | 9 | 9 | 9 | 1 | 6 | 7 | 3 | 5 | 2 | 8 | 8 | 9 | 1 | 0 | 0 | 4 | 8 | 8 | 0 | 8 | 4 | 9 | 1 | 7 | | |
| 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 | |
| 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 8 | 9 | 9 | 0 | 0 | 1 | 6 | 7 | 7 | 8 | 9 | 9 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 8 | 8 | 9 | 9 | |
| 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | |

Mineralization
 Pigmentation
 Epithelium, Hyperplasia

1 1 2 1

Seminal Vesicle
 Atrophy
 Inflammation, Suppurative
 Epithelium, Hyperplasia
 Lumen, Dilatation

+ + + + + A +
 3 3 3 3 4 2
 3 3

Testes
 Polyarteritis
 Interstitial Cell, Hyperplasia
 Seminiferous Tubule, Degeneration

+
 2 1 3 2 2 2 2 2 2 2 2
 2 1
 4 4 4 1 3 3 3 4 2 4 2 4 2 4 4 4 4 3 4 3 3

HEMATOPOIETIC SYSTEM

Bone Marrow
 Fibrosis
 Myelostromal Proliferation
 Myeloid Cell, Hyperplasia

+
 4 4 4 1 2

Lymph Node
 Hepatic, Inflammation, Granulomatous
 Lumbar, Hemorrhage
 Lumbar, Hyperplasia, Lymphoid
 Lumbar, Infiltration Cellular, Histiocyte
 Lumbar, Infiltration Cellular, Plasma Cell
 Lumbar, Pigmentation
 Lumbar, Sinus, Dilatation

+
 2 2 3 3 3

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 |
| | 7 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 5 | 3 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 4 | 6 |
| | 2 | 2 | 2 | 4 | 4 | 9 | 4 | 2 | 7 | 5 | 0 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 5 | 2 | 8 | 2 | 5 | 6 |
| | 5 | 9 | 9 | 9 | 1 | 6 | 7 | 3 | 5 | 2 | 8 | 8 | 9 | 1 | 0 | 0 | 4 | 8 | 8 | 0 | 8 | 4 | 9 | 1 | 7 |
| | 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 |
| | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 9 | 9 | 0 | 0 | 1 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 6 | 7 | 8 | 8 | 9 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 |

Mediastinal, Erythrophagocytosis
 Mediastinal, Hemorrhage
 Mediastinal, Hyperplasia, Lymphoid
 Mediastinal, Pigmentation
 Mediastinal, Sinus, Dilatation
 Pancreatic, Hyperplasia, Lymphoid
 Pancreatic, Infiltration Cellular, Plasma Cell
 Pancreatic, Inflammation, Granulomatous
 Pancreatic, Sinus, Dilatation
 Popliteal, Infiltration Cellular, Plasma Cell
 Popliteal, Sinus, Dilatation
 Renal, Hemorrhage
 Renal, Hyperplasia, Lymphoid
 Renal, Infiltration Cellular, Plasma Cell
 Renal, Inflammation, Granulomatous
 Renal, Pigmentation
 Renal, Sinus, Dilatation

2
 2
 2
 2
 2
 2
 3
 3

Lymph Node, Mandibular
 Hemorrhage
 Hyperplasia, Lymphoid
 Infiltration Cellular, Plasma Cell
 Pigmentation
 Sinus, Dilatation

+
 2
 2
 2
 3
 3
 2
 2
 3
 2
 2
 1
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 1
 3
 2
 1
 3
 2
 4

Lymph Node, Mesenteric
 Hemorrhage
 Hyperplasia, Lymphoid
 Infiltration Cellular, Plasma Cell
 Inflammation, Granulomatous

+ + + + + + A +
 2
 2
 2
 2

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|--------------------|
| | 07
25 | 07
29 | 07
29 | 06
49 | 05
49 | 06
61 | 06
67 | 07
73 | 05
75 | 03
75 | 07
82 | 07
88 | 05
89 | 05
91 | 06
90 | 06
90 | 06
94 | 07
88 | 07
88 | 05
90 | 07
88 | 06
84 | 07
91 | 04
61 | 06
67 | | |
| | 00
00
82 | 00
00
91 | 00
00
92 | 00
00
01 | 00
00
01 | 00
00
11 | 00
00
31 | 00
00
33 | 00
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33 | 00
00
33 | 00
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33 | 00
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33 | 00
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77 | 00
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77 | 00
00
44 | 00
00
77 | 00
00
77 | 00
00
77 | 00
00
77 | 00
00
77 | 00
00
66 | 00
00
77 | 00
00
88 | 00
00
91 | 00
00
67 | | |

Pigmentation
 Sinus, Dilatation

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | 1 | 2 | | 3 | | | | | 2 | | | 2 | | | 1 | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hyperplasia, Stromal | | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | 3 | | | 2 | | | 2 | 3 | | 2 | | 3 | | 3 | | 3 | 2 | | | 4 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | | | | X | X | X | | X | | | X | X | X | | X | | X | | | X | | X | X | | X | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Dilatation | | | | | | | | | | 2 | | | | | | 2 | | 2 | 2 | | | | 3 | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Lobular, Hyperplasia | 4 | | | | | 4 | | | | | | | | | | | | | | | | | | | 4 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | X | | | | | | | | | X | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|--|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|
| FISCHER 344 RATS-NCTR RATS
MALE | 0.02 Furan 104wk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| | | 7 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 5 | 3 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | | 7 | 6 |
| | | 2 | 2 | 2 | 4 | 4 | 9 | 4 | 2 | 7 | 5 | 0 | 2 | 2 | 7 | 2 | 2 | 2 | 8 | 8 | 0 | 2 | 8 | 4 |
| | | 5 | 9 | 9 | 9 | 1 | 6 | 7 | 3 | 5 | 2 | 8 | 8 | 9 | 1 | 0 | 0 | 4 | 8 | 8 | 0 | 8 | 4 | |
| | | 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 | |
| | | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 1 | 1 | |
| | | 8 | 9 | 9 | 0 | 0 | 1 | 6 | 6 | 7 | 8 | 9 | 9 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 6 | 7 | 8 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | |

Hyperkeratosis
 Epithelium, Hyperplasia

MUSCULOSKELETAL SYSTEM

Bone

Bone, Femur

Fibrous Osteodystrophy

+ +

Skeletal Muscle

NERVOUS SYSTEM

Brain, Brain Stem

Compression

Hemorrhage

Necrosis

+
 4 2 3 4 4 2 4 3 1 4 2 2 4 4
 2 2 4

Brain, Cerebellum

Gliosis

Hemorrhage

Necrosis

Ventricle, Dilatation

+ M +
 2

Brain, Cerebrum

Gliosis

Hemorrhage

Mineralization

Necrosis

+
 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

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 10119 - 01
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 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0725 | 0729 | 0729 | 0649 | 0541 | 0666 | 0667 | 0773 | 0552 | 0372 | 0778 | 0559 | 0551 | 0666 | 0666 | 0772 | 0772 | 0550 | 0778 | 0552 | 0778 | 0664 | 0779 | 0461 | | | 0675 |
| | 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 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 8 | 9 | 9 | 0 | 0 | 1 | 6 | 6 | 7 | 8 | 9 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 8 | 8 | 9 | 9 | |
| | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | | | | | | | | | 2 | 2 | | | | | | | | | 1 | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| Inflammation, Suppurative | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| FISCHER 344 RATS-NCTR 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 | |
| 0.02 Furan 104wk | | 7 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 5 | 3 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 4 | |
| ANIMAL ID | | 2 | 2 | 2 | 4 | 4 | 9 | 4 | 2 | 7 | 5 | 0 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 2 | 2 | 8 | 2 | 5 | 6 |
| | | 5 | 9 | 9 | 9 | 1 | 6 | 7 | 3 | 5 | 2 | 8 | 8 | 9 | 1 | 0 | 0 | 4 | 8 | 8 | 0 | 8 | 4 | 9 | 1 | 7 |
| | | 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 |
| | | 0 | 0 | 0 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 1 |
| | | 8 | 9 | 9 | 0 | 0 | 6 | 7 | 7 | 8 | 9 | 9 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 8 | 8 | 9 | |
| | | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | |

Inflammation, Suppurative

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 3 | 2 | 2 | 4 | 3 | 3 | 4 | 4 | 3 | 1 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 1 | 4 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|--|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS-NCTR 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 | | | | |
| | 7 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 5 | 3 | 7 | 7 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 4 | 6 | | |
| 0.02 Furan 104wk | 2 | 2 | 2 | 4 | 4 | 9 | 4 | 2 | 7 | 5 | 0 | 2 | 2 | 7 | 7 | 2 | 2 | 2 | 2 | 5 | 2 | 8 | 8 | 5 | 6 | | |
| | 5 | 9 | 9 | 9 | 1 | 6 | 7 | 3 | 5 | 2 | 8 | 8 | 9 | 1 | 0 | 0 | 4 | 8 | 8 | 0 | 8 | 4 | 9 | 1 | 7 | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
| 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 | |
| 0 | 0 | 0 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 1 | 1 | | 1 | 1 | |
| 8 | 9 | 9 | 0 | 0 | 1 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 6 | 7 | 8 | 8 | | 9 | | |
| 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Renal Tubule, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulbourethral Gland, Inflammation, Suppurative Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | 4 | | 4 | | | | 4 | | | | | 3 | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|-----|-----|
| | 078 | 065 | 078 | 062 | 062 | 068 | 062 | 067 | 066 | 066 | 077 | 066 | 066 | 075 | 074 | 077 | 066 | 066 | 077 | 077 | 066 | 063 | 066 | 077 | | | 055 | 066 | 055 |
| | 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 | 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 | 5 | 5 | 5 | 5 | 6 |
| | 9 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | X | | | X | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | 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 | |
| | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 6 | 7 | 5 | 7 | 4 | 7 | 6 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 5 | 6 | 5 | 6 | |
| | 2 | 0 | 2 | 2 | 2 | 8 | 2 | 7 | 8 | 2 | 9 | 2 | 0 | 2 | 3 | 0 | 2 | 0 | 8 | 5 | 3 | 2 | 3 | 2 | 9 | 1 | |
| | 8 | 5 | 8 | 7 | 6 | 2 | 8 | 0 | 7 | 8 | 1 | 8 | 7 | 8 | 1 | 7 | 9 | 8 | 9 | 9 | 9 | 8 | 3 | 4 | 1 | | |
| | 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 | |
| | | 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 | |
| | | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | |
| | | 9 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 5 | 5 | 6 | |
| | | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | 1 | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | | | | | 1 | | | | | | | 1 | | | | | 2 | | | 1 | 3 | | | | | |
| Hemorrhage | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | 2 | | | | | | 1 | | | | | | | 2 | | | | | | | | 4 | | | | |
| Bile Duct, Biliary Tract, Hyperplasia | | 1 | | 1 | 1 | | 3 | 1 | 4 | 3 | 1 | 3 | 1 | | 1 | | | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | 3 | | 4 | | | 2 | | | | | | | | 2 | 2 | | | | | 2 | | |
| Centrilobular, Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | 4 | | | | | | | | | | | 3 | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | 3 | | 4 | | | 2 | | | | | | | 1 | | | | | | | | | |
| Periportal, Vacuolization Cytoplasmic | | | | | 2 | | | | | | | | 2 | | | 2 | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | 4 | 4 | 4 | | | | | | | | | | | | | | | | | | |

* .. 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
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|
| | 078 | 065 | 078 | 067 | 066 | 066 | 077 | 066 | 066 | 077 | 066 | 066 | 077 | 057 | 074 | 077 | 066 | 066 | 077 | 077 | 066 | 033 | 066 | 077 | 055 | | | 066 |
| | 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 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| | 9 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | 7 | 8 | 8 | 9 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |

Oral Mucosa

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | 2 | | 1 | | | | | | | | | | | | | | 1 | 3 | 2 | |
| Artery, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Salivary Glands

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Stomach, Forestomach

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | 1 | | | | | | | | | | | 4 | | | | | | | | | | 4 | |
| Inflammation, Chronic Active | | | | 2 | 1 | 1 | | | | | | | | | 1 | 3 | | | | | | | | | | 3 | |
| Necrosis | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | 4 | | | | | | | | | 3 | |
| Epithelium, Hyperplasia | | | | 2 | 2 | 3 | | | | | 1 | | | | 1 | 3 | | | | | | | | | | 3 | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Stomach, Glandular

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE
0.02 Furan 104wk | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 078 | 065 | 078 | 062 | 062 | 068 | 072 | 067 | 067 | 070 | 067 | 058 | 074 | 077 | 066 | 066 | 077 | 077 | 063 | 063 | 075 | 066 | 065 | 059 | 065 | | |
| 078 | 065 | 078 | 062 | 062 | 068 | 072 | 067 | 067 | 070 | 067 | 058 | 074 | 077 | 066 | 066 | 077 | 077 | 063 | 063 | 075 | 066 | 065 | 059 | 065 | | | |
| 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | | | |
| 011 | 012 | 012 | 012 | 012 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 013 | 014 | 014 | 014 | 014 | 014 | 014 | 015 | 015 | 015 | 015 | | | |
| 019 | 018 | 018 | 019 | 019 | 010 | 011 | 011 | 016 | 016 | 017 | 018 | 018 | 019 | 019 | 014 | 015 | 015 | 016 | 016 | 017 | 017 | 011 | 011 | 011 | | | |
| 022 | 021 | 022 | 021 | 022 | 022 | 021 | 022 | 021 | 022 | 021 | 021 | 021 | 021 | 021 | 022 | 022 | 021 | 022 | 021 | 022 | 021 | 021 | 021 | 021 | | | |

Tongue

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 3 | 3 | 2 | 2 | 2 | 1 | 3 | | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 1 | 2 | 3 | 2 | | 2 | 2 | 1 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Thrombosis | X | | | | | X | | | X | | | | | | | | | | | | | | | X |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | | | X | | | | | | | X | | | X | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 1 | | 1 | 2 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 3 | | 4 | 1 | | 3 | 1 | 3 | 4 | 4 | 1 | 4 | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 6 | 7 | 5 | 7 | 4 | 7 | 6 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 5 | | |
| | 2 | 0 | 2 | 2 | 2 | 8 | 2 | 7 | 8 | 2 | 9 | 2 | 0 | 2 | 3 | 0 | 2 | 0 | 8 | 5 | 3 | 2 | 3 | 2 | 9 |
| | 8 | 5 | 8 | 7 | 6 | 2 | 8 | 0 | 7 | 8 | 1 | 8 | 7 | 8 | 1 | 7 | 9 | 8 | 9 | 9 | 9 | 8 | 3 | 4 | 1 |
| | 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 |
| | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| | 9 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 5 | 5 | 6 |
| | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|---|---|--|---|---|--|--|--|---|--|--|--|---|--|--|--|--|--|--|--|--|---|---|--|
| Hemorrhage | | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | 1 | 1 | | 2 | | | | | 3 | | | | 2 | | | | | | | | | 1 | 2 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | 2 | 4 | | | | | | 3 | | | | | 2 | | | 3 | | | | | | | | |
| Pars Distalis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectopic Thymus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| C-cell, Hyperplasia | 2 | 1 | | | 2 | | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | | 1 | | 2 | 3 | 1 | | 1 | 1 | 1 | |
| Follicle, Cyst | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

Peritoneum
 Pigmentation

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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8 | 0
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7 | 0
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6 | 0
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7 | 0
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8 | 0
6
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Tissue NOS

GENITAL SYSTEM

Ductus Deferens

Epididymis
 Exfoliated Germ Cell
 Hypospermia
 Epithelium, Degeneration

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| 1 | | | | | 3 | 4 | | | | 4 | | | | 2 | | | | | 2 | | | | | | | | | | |
| | | 4 | | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | | 4 | | 4 | 4 | 4 | | 4 | | | | | | | | | | 1 |
| | | 4 | | 2 | 3 | 3 | 3 | 4 | 3 | 3 | | | 2 | | | | 2 | 2 | 1 | | 2 | | | | | | | | |

Preputial Gland

Abscess
 Edema
 Fibrosis
 Inflammation, Suppurative
 Inflammation, Chronic Active
 Necrosis
 Acinus, Degeneration
 Acinus, Hyperplasia
 Duct, Ectasia
 Epithelium, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | 4 | | | | 4 | | | | | | | 4 | | 4 | | | | | | | | | | | |
| 2 | 4 | 2 | 2 | 3 | | | | 3 | | 2 | 3 | | | | 2 | | | | | 2 | | | | | | 3 | | 3 | |
| | | | 4 | | | 4 | 4 | | | 4 | 4 | 4 | 4 | 3 | | 3 | 4 | 3 | | 2 | 4 | | | | | | | | |
| 2 | 4 | 2 | | 2 | 2 | | | | | 4 | | | | | 2 | | | | 2 | | | | | | | 1 | 2 | 2 | |
| | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | | 4 | | 2 | 4 | 4 | | | 4 | 4 | | 4 | 2 | | 3 | 4 | 3 | | | | | | | | | 1 | 2 | |

Prostate

Abscess
 Atrophy
 Degeneration, Cystic
 Fibrosis
 Inflammation, Suppurative
 Inflammation, Chronic Active

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | 2 | | | 3 | 4 | 2 | | | | | | 3 | 3 | | | 2 | | | | | | | | | |
| | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 1 | 4 | 2 | 2 | | 1 | | | 2 | | | | 3 | | | | | 2 | | | | | | | | | | |
| | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |

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Furan
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 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS-NCTR RATS MALE | 0
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6
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| 0.02 Furan 104wk | 0
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2 | 0
1
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2 | 0
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9
2 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) |

Mineralization
 Pigmentation
 Epithelium, Hyperplasia

2 2 2 1 1 2 2

Seminal Vesicle
 Atrophy
 Inflammation, Suppurative
 Epithelium, Hyperplasia
 Lumen, Dilatation

+
 2 2 2 2 3 4 4 3 3 4 3 4 3 4 2 2
 3 4 2 2

Testes
 Polyarteritis
 Interstitial Cell, Hyperplasia
 Seminiferous Tubule, Degeneration

+
 2 1 2 1 1 2 1
 1 2 1
 2 1 4 4 4 4 1 4 4 4 4 4 4 1 4 4 4 4 4 3 4 3 4 3 4 3

HEMATOPOIETIC SYSTEM

Bone Marrow
 Fibrosis
 Myelostromal Proliferation
 Myeloid Cell, Hyperplasia

+
 3

Lymph Node
 Hepatic, Inflammation, Granulomatous
 Lumbar, Hemorrhage
 Lumbar, Hyperplasia, Lymphoid
 Lumbar, Infiltration Cellular, Histiocyte
 Lumbar, Infiltration Cellular, Plasma Cell
 Lumbar, Pigmentation
 Lumbar, Sinus, Dilatation

+
 3 4 2 4 2

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 7 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 6 | 7 | 5 | 7 | 4 | 7 | 6 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 5 | 6 | 5 | 5 | |
| 2 | 0 | 2 | 2 | 2 | 8 | 2 | 7 | 8 | 2 | 9 | 2 | 0 | 2 | 3 | 0 | 2 | 0 | 8 | 5 | 3 | 2 | 3 | 2 | 9 | 1 | |
| 8 | 5 | 8 | 7 | 6 | 2 | 8 | 0 | 7 | 8 | 1 | 8 | 7 | 8 | 1 | 7 | 9 | 8 | 9 | 9 | 9 | 8 | 3 | 4 | 1 | 1 | |
| 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 | 1 | |
| 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | |
| 9 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 5 | 5 | 6 | 6 | |
| 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | |

Pigmentation
 Sinus, Dilatation

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | 4 | | 4 | | | | | | | | | 4 | | | | | | |
| Hematopoietic Cell Proliferation | 2 | | 1 | | | | 2 | | | 2 | | 1 | | 2 | | 1 | 2 | | 3 | | 2 | 3 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Stromal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Pigmentation | 1 | | | 3 | 3 | | 2 | | | | | | 2 | 4 | 2 | | | 3 | | | 2 | 2 | 3 | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | X | | X | X | X | | X | | | X | X | | X | X | | X | | X | | | | X | X | X | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Alveolus, Dilatation | | | | | | | | | | 3 | | | | | | | | | | | 2 | 2 | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | 2 | | | | | 2 | | | | | | 1 | |
| Lobular, Hyperplasia | | | 2 | | | | 4 | | | | 3 | | | | | | | | | 3 | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 10119 - 01
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 Furan
 CAS Number: 110-00-9

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|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| FISCHER 344 RATS-NCTR RATS MALE
0.02 Furan 104wk | DAY ON TEST | 078 | 065 | 078 | 062 | 066 | 072 | 066 | 066 | 075 | 067 | 064 | 074 | 066 | 066 | 077 | 067 | 063 | 066 | 077 | 053 | 067 | 055 | 066 | 055 | males
(cont...) |
| | ANIMAL ID | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | |
| | | 92 | 88 | 88 | 99 | 00 | 01 | 02 | 06 | 06 | 07 | 08 | 08 | 09 | 09 | 04 | 05 | 05 | 06 | 06 | 07 | 07 | 05 | 05 | 06 | |

Hyperkeratosis
 Epithelium, Hyperplasia

MUSCULOSKELETAL SYSTEM

Bone

Bone, Femur
 Fibrous Osteodystrophy

+ +

Skeletal Muscle

NERVOUS SYSTEM

Brain, Brain Stem
 Compression
 Hemorrhage
 Necrosis

+
 4 4 2 3 2 4 3 4 3 4
 3 2
 3

Brain, Cerebellum
 Gliosis
 Hemorrhage
 Necrosis
 Ventricle, Dilatation

+
 2
 2

Brain, Cerebrum
 Gliosis
 Hemorrhage
 Mineralization
 Necrosis

+
 3
 3

* .. 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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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|
| | 078 | 065 | 078 | 067 | 066 | 066 | 072 | 066 | 066 | 076 | 066 | 066 | 075 | 074 | 077 | 066 | 066 | 077 | 077 | 066 | 033 | 066 | 077 | 053 | | | 066 |
| | 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 | 1 | 1 |
| | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| | 9 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 5 | 5 | 5 | 6 | 6 |
| | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|
| Ventricle, Dilatation | 1 | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | 1 | | | | | | | 2 | 1 | | | | 1 | | 1 | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| FISCHER 344 RATS-NCTR RATS MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>7</td><td>6</td><td>7</td><td>6</td><td>6</td><td>6</td><td>7</td><td>6</td><td>6</td><td>7</td><td>5</td><td>7</td><td>4</td><td>7</td><td>6</td><td>6</td><td>7</td><td>7</td><td>6</td><td>3</td><td>6</td><td>7</td><td>5</td><td>6</td><td>5</td></tr> <tr><td>2</td><td>0</td><td>2</td><td>2</td><td>2</td><td>8</td><td>2</td><td>7</td><td>8</td><td>2</td><td>9</td><td>2</td><td>0</td><td>2</td><td>3</td><td>0</td><td>2</td><td>0</td><td>8</td><td>5</td><td>3</td><td>2</td><td>3</td><td>2</td><td>9</td></tr> <tr><td>8</td><td>5</td><td>8</td><td>7</td><td>6</td><td>2</td><td>8</td><td>0</td><td>7</td><td>8</td><td>1</td><td>8</td><td>7</td><td>8</td><td>1</td><td>7</td><td>9</td><td>8</td><td>9</td><td>9</td><td>8</td><td>3</td><td>4</td><td>1</td><td></td></tr> </table> | | | | | | | | | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 6 | 7 | 5 | 7 | 4 | 7 | 6 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 5 | 6 | 5 | 2 | 0 | 2 | 2 | 2 | 8 | 2 | 7 | 8 | 2 | 9 | 2 | 0 | 2 | 3 | 0 | 2 | 0 | 8 | 5 | 3 | 2 | 3 | 2 | 9 | 8 | 5 | 8 | 7 | 6 | 2 | 8 | 0 | 7 | 8 | 1 | 8 | 7 | 8 | 1 | 7 | 9 | 8 | 9 | 9 | 8 | 3 | 4 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7 | 6 | 7 | 6 | 6 | 6 | 7 | 6 | 6 | 7 | 5 | 7 | 4 | 7 | 6 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 5 | 6 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 0 | 2 | 2 | 2 | 8 | 2 | 7 | 8 | 2 | 9 | 2 | 0 | 2 | 3 | 0 | 2 | 0 | 8 | 5 | 3 | 2 | 3 | 2 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 5 | 8 | 7 | 6 | 2 | 8 | 0 | 7 | 8 | 1 | 8 | 7 | 8 | 1 | 7 | 9 | 8 | 9 | 9 | 8 | 3 | 4 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 6 | 6 | 7 | 8 | 8 | 9 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 5 | 5 | 6 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Inflammation, Suppurative

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 4 | 2 | 4 | 3 | 4 | 2 | 3 | | 2 | 4 | | 4 | 2 | 4 | 2 | 4 | 4 | 4 | 3 | 2 | 3 | 4 | 3 | 4 | 4 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----------------|
| | 063 | 067 | 058 | 039 | 072 | 053 | 072 | 054 | 072 | 072 | 057 | 048 | 049 | 055 | 057 | 066 | 078 | 054 | 067 | 053 | 078 | 055 | 072 | 057 | | |
| 0.02 Furan 104wk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15562 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|---|---|
| | 063 | 067 | 058 | 039 | 072 | 053 | 072 | 054 | 072 | 078 | 052 | 072 | 047 | 044 | 055 | 057 | 066 | 072 | 056 | 067 | 054 | 072 | 055 | 072 | 075 | | | 079 | | |
| | 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 | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Bile Duct, Biliary Tract, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Capsule, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Centrilobular, Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Periportal, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----------------|
| | 063 | 067 | 058 | 039 | 072 | 053 | 072 | 052 | 074 | 075 | 057 | 078 | 047 | 049 | 055 | 057 | 067 | 072 | 056 | 067 | 054 | 073 | 058 | 070 | 057 | 072 | | |
| 0.02 Furan 104wk | 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 | 1552 | |

Oral Mucosa

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | 2 | | | | | | | | | | | 3 | | | | | | | | 2 | | | | | |
| Acinus, Degeneration | | 2 | | | | 2 | | | | | | 4 | 2 | | 2 | | 2 | 2 | | | | | | | | |
| Artery, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

Salivary Glands

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|---|--|--|--|--|---|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Edema | | | | | | | 4 | | | | 3 | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | 2 | | | | | 4 | | | | 3 | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | 4 | | | 3 | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | 2 | | | | | 3 | | | 3 | | | | | | | | | | | | | | | | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

Stomach, Glandular

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Edema | | | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|--|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|
| FISCHER 344 RATS-NCTR RATS
MALE | 0.02 Furan 104wk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| | | 6 | 6 | 5 | 3 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 4 | 4 | 5 | 5 | 6 | 7 | 5 | 6 | | 7 | 5 |
| | | 3 | 7 | 8 | 9 | 2 | 3 | 2 | 4 | 2 | 2 | 4 | 2 | 5 | 7 | 7 | 7 | 6 | 8 | 4 | 0 | 8 | 3 | 8 |
| | ANIMAL ID | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 5 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | |
| | | 6 | 1 | 2 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 0 | 1 | 2 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 4 | 5 | |
| | | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

Tongue

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 2 | 1 | 4 | 3 | 2 | 2 | 1 | 3 | 1 | 3 | 2 | | | 3 | 3 | 2 | 2 | 1 | | 4 | 1 | 2 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | X | | | | | | X | | | | | | | | X | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | X | | | | X | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | 2 | 2 | 1 | 2 | 3 | 3 | | 1 | 2 | 3 | 2 | | 2 | | | 2 | | 1 | 3 | | 2 | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|-----|-----|-----|-----|
| | 063 | 067 | 058 | 039 | 072 | 053 | 072 | 052 | 074 | 072 | 057 | 074 | 047 | 049 | 055 | 057 | 066 | 072 | 056 | 078 | | | 053 | 078 | 050 | 078 | 052 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | 1 | 4 | | 3 | | 1 | | 3 | | | | | | | | | | 2 | 1 | 2 | 2 | 1 | 1 | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | 2 | | | | | | | | | | | | | | 4 | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | 2 | | 2 | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Pars Distalis, Hyperplasia | | 4 | | 2 | | 2 | | | | | | 2 | | | 1 | | | 2 | | | | | | | 3 | | |
| Pars Distalis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectopic Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 1 | | 2 | 2 | | 1 | 2 | | | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | | | | | | 1 | | |
| Follicle, Cyst | | | | | X | | | | | | | | | | | | | | | | | X | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | + | | | | | | | | | | | | | | | | | | + |

* .. 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

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

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 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | | 0
6
6
3 | 0
6
9
7 | 0
5
9
8 | 0
3
7
9 | 0
7
2
2 | 0
5
3
5 | 0
7
2
2 | 0
5
4
2 | 0
7
2
8 | 0
7
2
2 | 0
5
4
7 | 0
7
2
8 | 0
4
5
7 | 0
4
7
5 | 0
5
7
7 | 0
6
7
6 | 0
7
5
4 | 0
6
5
0 | 0
7
4
3 | 0
5
2
8 | | 0
7
5
0 |
| ANIMAL ID | | 0
1
5
6
2 | 0
1
8
1
2 | 0
1
8
2
1 | 0
1
8
3
1 | 0
1
8
3
4 | 0
1
8
4
1 | 0
2
0
4
2 | 0
2
0
9
1 | 0
2
0
9
0 | 0
2
1
0
2 | 0
2
1
0
1 | 0
2
1
1
2 | 0
2
2
2
1 | 0
2
4
7
2 | 0
2
4
7
1 | 0
2
4
8
2 | 0
2
4
8
2 | 0
2
5
9
1 | 0
2
5
0
2 | 0
2
7
4
1 | 0
2
7
5
1 | 0
2
7
5
2 |

Tissue NOS

GENITAL SYSTEM

Ductus Deferens

+

Epididymis

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 3 | 1 | | | 3 | | | | | 3 | 1 | | | | 1 | 2 | | | 1 | 2 | | | | | 4 | 4 |
| 4 | 3 | | | 4 | 3 | 4 | | | 4 | 3 | | | | 3 | 4 | 4 | 4 | | 2 | | | | | 4 | 4 | |
| 4 | 3 | | | 3 | | 2 | | | 3 | | | | | 2 | | | 3 | | 3 | | | | 2 | 2 | | |

Preputial Gland

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | 4 | 4 | | | | | | | | | 4 | 4 | 4 | 4 |
| 2 | 2 | | | 4 | | 2 | 2 | 2 | | 3 | 3 | | | | | 2 | 4 | | 3 | 3 | | | | | 3 | | |
| 2 | | | 2 | | | | | | 3 | 3 | | | | | | | | | | | | | | | | | |
| | 1 | 2 | | 4 | | 2 | 2 | 3 | | 4 | | 2 | | | 4 | 2 | 3 | 2 | 2 | 3 | | | | | | | |
| | | | | 4 | | | | | | | | | | 4 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 3 | | | | 2 | | 2 | | 4 | 2 | | 2 | | 3 | | 3 | | | | | | 4 | | |
| | | | | | | | | 3 | | | | | | 4 | | 4 | | 3 | | 3 | | | | | | | |

Prostate

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 2 | 2 | | | | | 2 | | 2 | | 3 | | | 2 | | | | |
| | | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| 2 | 1 | 2 | | 1 | 2 | 2 | 2 | | 2 | | 2 | | 2 | | | 3 | | | | 4 | 1 | 2 | | 3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

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| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|------------------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----------------|-----|
| | 063 | 067 | 058 | 039 | 072 | 053 | 072 | 054 | 072 | 058 | 072 | 057 | 074 | 044 | 054 | 057 | 067 | 056 | 078 | 050 | 073 | 057 | 075 | 057 | | | 079 |
| 0.02 Furan 104wk | 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 | 11562 | |

Mineralization
 Pigmentation
 Epithelium, Hyperplasia

1 1 2 2 1 2 2

Seminal Vesicle
 Atrophy
 Inflammation, Suppurative
 Epithelium, Hyperplasia
 Lumen, Dilatation

+
 3 4 2 2 2 3 3 3 2
 3 2 2 3

Testes
 Polyarteritis
 Interstitial Cell, Hyperplasia
 Seminiferous Tubule, Degeneration

+
 2 1 2 2 2
 1 1 3 1 2 1 2 1 1 1
 4 4 1 4 4 4 4 4 2 1 3 4 4 4 2 2 2 4 1 4

HEMATOPOIETIC SYSTEM

Bone Marrow
 Fibrosis
 Myelostromal Proliferation
 Myeloid Cell, Hyperplasia

+
 3 3 3 2 4 3 3 3

Lymph Node
 Hepatic, Inflammation, Granulomatous
 Lumbar, Hemorrhage
 Lumbar, Hyperplasia, Lymphoid
 Lumbar, Infiltration Cellular, Histiocyte
 Lumbar, Infiltration Cellular, Plasma Cell
 Lumbar, Pigmentation
 Lumbar, Sinus, Dilatation

+
 +
 2 2
 3 4

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | |
|------------------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----------------|-----|-----|-----------------|
| | 063 | 067 | 058 | 039 | 072 | 053 | 072 | 054 | 072 | 078 | 057 | 074 | 049 | 047 | 055 | 057 | 066 | 078 | 056 | 078 | | | 054 | 078 | 057 |
| 0.02 Furan 104wk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 151 | males (cont...) |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 586 | |
| | 5 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | 612 | |
| | 2 | 2 | 1 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 0 | 1 | 2 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 5 | 221 | |

Mediastinal, Erythrophagocytosis
 Mediastinal, Hemorrhage
 Mediastinal, Hyperplasia, Lymphoid
 Mediastinal, Pigmentation
 Mediastinal, Sinus, Dilatation 4
 Pancreatic, Hyperplasia, Lymphoid
 Pancreatic, Infiltration Cellular, Plasma Cell
 Pancreatic, Inflammation, Granulomatous
 Pancreatic, Sinus, Dilatation
 Popliteal, Infiltration Cellular, Plasma Cell 4
 Popliteal, Sinus, Dilatation 3
 Renal, Hemorrhage
 Renal, Hyperplasia, Lymphoid 3
 Renal, Infiltration Cellular, Plasma Cell
 Renal, Inflammation, Granulomatous 2
 Renal, Pigmentation
 Renal, Sinus, Dilatation

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid | | | 2 | | | | | | | | | 3 | 1 | | 2 | | | | | 2 | 1 | | 1 | |
| Infiltration Cellular, Plasma Cell | 2 | 2 | | | 2 | | 2 | | 2 | 2 | 3 | 2 | | 2 | | | 2 | 2 | 2 | | | 1 | 1 | 2 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | 2 | | | | | | | | | 1 | | | | 1 | 2 | 3 | 2 | | | | | |
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid | | | 2 | 2 | | | | | | | | 2 | | 2 | 2 | | | | | | | 1 | 1 | |
| Infiltration Cellular, Plasma Cell | 2 | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 A .. Autolysis precludes evaluation
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|-----|-----|-----|-----|-----|-----|
| | 063 | 067 | 058 | 039 | 072 | 053 | 072 | 054 | 072 | 058 | 072 | 057 | 044 | 044 | 055 | 055 | 066 | 077 | 056 | 067 | | | 054 | 073 | 057 | 057 | 072 | 057 | 072 |
| | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 6 | 1 | 2 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 0 | 1 | 2 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 0 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 1 |
| | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

Pigmentation
 Sinus, Dilatation

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Hematopoietic Cell Proliferation | 1 | | 2 | | | | | 3 | | 2 | 3 | | 2 | | | | 1 | | | | 3 | 4 | 2 | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Stromal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 2 | | 2 | 2 | | | | 2 | 2 | | | 2 | 2 | | 3 | | 2 | | | | 4 | | | | | | | 1 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Galactocele | | X | X | | | | | X | X | | X | | | | | | X | | | X | | X | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Dilatation | | | | | 2 | | 2 | | | | | | | | | | | | 2 | | | | | | | | | 2 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Lobular, Hyperplasia | 3 | 1 | | 2 | | | | | 1 | | | | | | | | | | | | | | | | | 3 | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------|
| FISCHER 344 RATS-NCTR RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | males (cont...) |
| | 0663 | 0697 | 0598 | 0379 | 0752 | 0735 | 0722 | 0542 | 0728 | 0722 | 0578 | 0447 | 0449 | 0555 | 0577 | 0666 | 0724 | 0565 | 0708 | 0543 | 0728 | 0550 | 0720 | |
| | 0056 | 0182 | 0081 | 0118 | 0118 | 0118 | 0120 | 0200 | 0201 | 0201 | 0201 | 0202 | 0202 | 0204 | 0204 | 0204 | 0204 | 0204 | 0205 | 0205 | 0207 | 0207 | 0207 | |
| 0.02 Furan 104wk | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | |

Hyperkeratosis
 Epithelium, Hyperplasia

MUSCULOSKELETAL SYSTEM

Bone

Bone, Femur
 Fibrous Osteodystrophy

Skeletal Muscle

+ +

+

NERVOUS SYSTEM

Brain, Brain Stem
 Compression
 Hemorrhage
 Necrosis

+
 4 4 2 4

Brain, Cerebellum
 Gliosis
 Hemorrhage
 Necrosis
 Ventricle, Dilatation

+
 2

Brain, Cerebrum
 Gliosis
 Hemorrhage
 Mineralization
 Necrosis

+
 2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|
| | 063 | 067 | 058 | 039 | 072 | 053 | 072 | 054 | 072 | 078 | 052 | 072 | 047 | 049 | 055 | 057 | 066 | 078 | 056 | 060 | 073 | 058 | 078 | 050 | | | 072 |
| | 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 | 15 | 2 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 5 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | 7 | 7 | 7 | |
| | 6 | 1 | 2 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 0 | 1 | 2 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 4 | 5 | 5 | 5 | 6 | 7 | |
| | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ventricle, Dilatation | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 4 1 3 1 4 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 1 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 4 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | X X X X | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 3 2 2 2 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Goblet Cell, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|------------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS
MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | |
| 0.02 Furan 104wk | | 6 | 6 | 5 | 3 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 4 | 4 | 5 | 5 | 6 | 7 | 5 | 6 | | 7 | 5 | 7 | 5 |
| ANIMAL ID | | 3 | 7 | 8 | 9 | 2 | 3 | 2 | 4 | 2 | 2 | 4 | 2 | 5 | 7 | 7 | 7 | 6 | 8 | 4 | 0 | 8 | 3 | 8 | 0 | 9 |
| | | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 5 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 7 | 7 | 7 | 7 | 7 |
| | | 6 | 1 | 2 | 3 | 3 | 4 | 4 | 9 | 9 | 0 | 0 | 1 | 2 | 7 | 8 | 8 | 8 | 9 | 9 | 0 | 4 | 5 | 5 | 5 | 6 |
| | | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

Inflammation, Suppurative 1

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | + | | | | | | | | | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | 4 | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | 2 | | | | | | | | 1 | | | | | | | 1 | 2 | | | 2 | 2 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 4 | 3 | 4 | 2 | 4 | 2 | 4 | 3 | 4 | 4 | 2 | 4 | 1 | 2 | 2 | 2 | 4 | 3 | 2 | 3 | 4 | 2 | 3 | 2 | 3 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

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 Species/Strain: RATS/F 344/NCTR

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Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-------------|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|--------------------|
| | 0
6
6
3 | 0
6
9
7 | 0
5
9
8 | 0
3
7
9 | 0
7
2
2 | 0
5
3
5 | 0
7
2
2 | 0
5
2
2 | 0
7
4
8 | 0
7
2
2 | 0
5
2
7 | 0
7
4
8 | 0
4
2
7 | 0
4
5
9 | 0
5
7
5 | 0
5
7
0 | 0
6
7
6 | 0
7
2
8 | 0
5
6
4 | 0
6
5
0 | 0
7
4
3 | 0
5
2
8 | 0
7
5
0 | 0
5
2
9 | | |
| | 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
5
6
2 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1
1
1
8
2 | |

Renal Tubule, Degeneration
 Renal Tubule, Dilatation
 Transitional Epithelium, Hyperplasia

1 2 2 1 2 2

Urethra
 Bulbourethral Gland, Inflammation, Suppurative
 Lumen, Dilatation

Urinary Bladder Hemorrhage Inflammation, Suppurative Inflammation, Chronic Active Lumen, Dilatation Transitional Epithelium, Hyperplasia

+ +

4 3 1 2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|--------------------|
| | 0729 | 0619 | 0728 | 0527 | 0626 | 0525 | 0727 | 0728 | 0529 | 0721 | 0428 | 0725 | 0527 | 0728 | 0328 | 0728 | 0820 | 0729 | 0628 | 0729 | 0626 | 0729 | 0624 | 0528 | | | 0729 |
| | 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 | 02762 | males
(cont...) |
| | 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 | 02762 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epithelium, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| FISCHER 344 RATS-NCTR RATS MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 6 | 7 | 5 | 6 | 5 | 7 | 7 | 5 | 7 | 4 | 7 | 5 | 7 | 7 | 3 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | | |
| ANIMAL ID | 2 | 1 | 2 | 2 | 6 | 3 | 0 | 2 | 9 | 1 | 2 | 0 | 3 | 2 | 2 | 8 | 2 | 9 | 2 | 6 | 2 | 9 | 4 | 2 | |
| | 9 | 9 | 8 | 7 | 6 | 5 | 2 | 8 | 2 | 9 | 8 | 5 | 6 | 8 | 8 | 0 | 9 | 8 | 9 | 5 | 9 | 1 | 5 | 8 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 6 | 7 | 1 | 1 | 2 | 2 | 3 | 4 | 1 | 1 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | | |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | | | | | | | | | | 2 | | 1 | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | 4 | | 2 | | 2 | | | | | | | | | | | 1 | |
| Bile Duct, Biliary Tract, Hyperplasia | | | 1 | | 2 | | | | | 1 | 1 | 2 | 1 | | 2 | 1 | | | | 3 | 1 | 2 | | 1 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | 2 | | | | | | | | | 2 | | | | | | | | 2 | | |
| Centrilobular, Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Periportal, Vacuolization Cytoplasmic | | | | | | | 2 | 1 | | | | | | | | | | | | | | | | 1 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

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X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
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| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0619 | 0728 | 0527 | 0626 | 0525 | 0727 | 0728 | 0525 | 0727 | 0424 | 0725 | 0526 | 0727 | 0728 | 0322 | 0828 | 0729 | 0628 | 0729 | 0626 | 0729 | 0624 | 0625 | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | 4 | 4 | 3 | | | | | | | 2 | 2 | | | | | | | | | 1 | | | |
| Artery, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | 4 | 4 | | | | 2 | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Chronic Active | | | | 4 | 4 | | | | 2 | 2 | | | | 2 | | | | | | 4 | | | | | | 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | 4 | | | | | |
| Ulcer | | | | | 4 | 4 | | | | | | 1 | | | | | | | | | | | | | | 3 |
| Epithelium, Hyperplasia | | | 2 | | 4 | 4 | | | | 3 | 3 | | | 4 | | | | | | | 3 | | | | | 2 |
| Serosa, Fibrosis | | | | | | | | 3 | | | | | | | | | | | | | 4 | | | | | |
| Serosa, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 2 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| | 0729 | 0619 | 0728 | 0527 | 0626 | 0525 | 0724 | 0723 | 0522 | 0721 | 0420 | 0519 | 0718 | 0517 | 0716 | 0315 | 0714 | 0613 | 0712 | 0611 | 0710 | 0609 | 0508 | 0707 | | 0606 | 0705 | 0604 | 0703 | 0602 |
| ANIMAL ID | 02762 | 02776 | 02781 | 02788 | 02788 | 02788 | 02788 | 02788 | 02788 | 02780 | 02780 | 02780 | 02780 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | 02783 | males
(cont...) |

Tongue +

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 3 | 3 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | | 3 | 4 | 2 | 3 | 2 | 1 | | 4 | 3 | 2 | 3 | 1 | 2 | 1 | 1 | | | | |
| Congestion | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | X | | | | | | | | | X | X | | | | | | | | | | | | | | X | X | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | X | | | | | | | | | | | | | | | X | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | 2 | | 2 | | 2 | 4 | 3 | 4 | 3 | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 3 | | | 4 | 3 | 2 | 2 | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | 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 | males
(cont...) | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|
| | | 7 | 6 | 7 | 5 | 6 | 5 | 7 | 7 | 5 | 7 | 4 | 7 | 5 | 7 | 7 | 3 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 5 | | | 7 |
| | | 2 | 1 | 2 | 2 | 6 | 3 | 0 | 2 | 9 | 1 | 2 | 0 | 3 | 2 | 2 | 8 | 2 | 9 | 8 | 2 | 9 | 1 | 5 | 8 | 9 | | |
| | | 9 | 9 | 8 | 7 | 6 | 5 | 2 | 8 | 2 | 9 | 8 | 5 | 6 | 8 | 8 | 0 | 9 | 8 | 9 | 5 | 9 | 1 | 5 | 8 | 7 | | |
| | | 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 | | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 6 | 7 | 1 | 1 | 2 | 2 | 3 | 4 | 1 | 1 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | | | |
| | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | 1 | 3 | | | | 3 | 3 | 3 | 1 | | | 2 | 1 | | | | 1 | 2 | | 3 | | 1 | 1 | 3 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia | | | | | 2 | | | | 2 | | | 1 | | | | 2 | | | | | 1 | | | | | | | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | 4 | | | | | | | | | | | | | | | | | | | | 4 | | | 3 | 2 | | |
| Pars Distalis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Ectopic Thymus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | 1 | | | 1 | 2 | 1 | | | | | 2 | 1 | 1 | | | 1 | | 2 | | | 1 | 1 | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|--|
| | 0729 | 0619 | 0728 | 0527 | 0626 | 0525 | 0727 | 0728 | 0529 | 0721 | 0422 | 0725 | 0526 | 0727 | 0728 | 0328 | 0729 | 0628 | 0727 | 0626 | 0729 | 0629 | 0624 | 0625 | | | 0728 | 0527 | |
| | 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 | 0729 | | |
| | 2 | 1 | 2 | 2 | 6 | 3 | 0 | 2 | 9 | 1 | 2 | 0 | 3 | 2 | 2 | 8 | 2 | 9 | 8 | 9 | 6 | 6 | 2 | 9 | 4 | 2 | 9 | 0729 | |
| | 9 | 9 | 8 | 7 | 6 | 5 | 2 | 8 | 2 | 9 | 8 | 5 | 6 | 8 | 8 | 0 | 9 | 8 | 9 | 5 | 9 | 5 | 9 | 1 | 5 | 8 | 7 | 0729 | |
| | 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 | 0729 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0729 | |
| | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0729 | |
| | 6 | 7 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 1 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | 8 | 1 | 1 | 8 | 8 | 8 | 9 | 0729 | |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 0729 | |

Tissue NOS

GENITAL SYSTEM

Ductus Deferens

Epididymis

Exfoliated Germ Cell

Hypospermia

Epithelium, Degeneration

Preputial Gland

Abscess

Edema

Fibrosis

Inflammation, Suppurative

Inflammation, Chronic Active

Necrosis

Acinus, Degeneration

Acinus, Hyperplasia

Duct, Ectasia

Epithelium, Hyperplasia

Prostate

Abscess

Atrophy

Degeneration, Cystic

Fibrosis

Inflammation, Suppurative

Inflammation, Chronic Active

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 3 | | | 2 | | | | | | | | 2 | | | | | | 2 | | | | | | | | | | |
| | 4 | | | | 3 | | | 4 | | 4 | | | 3 | 4 | 4 | | | 4 | | | 4 | 4 | 4 | 4 | | | | |
| | 3 | | | | 2 | | | 1 | 4 | | 4 | | | 2 | | | | 4 | | | 4 | 4 | | 2 | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | 4 | | | 4 | | | | | | | | | 4 | | | 4 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| | | | | | 2 | 3 | 4 | | 3 | | 3 | | 3 | | | 3 | | 2 | 2 | | | | | 3 | 3 | | | |
| | | | | | 4 | | | 3 | 4 | | 2 | 3 | | 4 | | 2 | 4 | | 3 | | | 2 | | 4 | | | | |
| | 2 | 4 | | | | | | | | | 2 | | 3 | | | | | | | 2 | | | 3 | | 4 | 2 | 1 | |
| | 3 | 2 | 4 | | | | | 4 | | 4 | 4 | 4 | 4 | | 4 | 4 | | | | 2 | | | 4 | | | 1 | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 2 | | | | | 3 | | | | | | | | | 2 | 3 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| | | | | | | | | | | | | | | | | | 4 | | | | | | 4 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 4 | | 1 | 3 |
| | 1 | | | | | | | | | | 1 | | | | | | | | | | | | 2 | | 4 | | | |

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

+ .. Tissue examined microscopically

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Experiment Number: 10119 - 01
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 Route: GAVAGE
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | |
|-----------------------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|-------|-----------------|--|
| | 0729 | 0619 | 0728 | 0527 | 0626 | 0525 | 0727 | 0727 | 0525 | 0724 | 0725 | 0727 | 0727 | 0322 | 0728 | 0728 | 0029 | 0629 | 0726 | 0626 | 0729 | 0626 | 0624 | 0725 | | | 0728 | 0527 | |
| 0.02 Furan 104wk | 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 | 27672 | males (cont...) | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | | | |
| Atrophy | 2 | | | | | | | 2 | | 3 | | | 3 | | | | 3 | | | | 3 | 3 | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | | | | |
| Polyarteritis | | | | 3 | | | | 1 | | | | | | 2 | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | 1 | 1 | 2 | | | | 1 | 1 | | | 2 | 1 | | | 2 | | | | | | | | | | | | |
| Seminiferous Tubule, Degeneration | 4 | | 2 | 2 | 2 | 2 | | 4 | 1 | 4 | | 2 | 3 | 4 | 4 | | 4 | 2 | 3 | | 4 | 4 | 4 | 4 | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelostromal Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | 2 | | 2 | | | | | | | | | | | 4 | | | | 3 | | 4 | 4 | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|-----------------|
| | 0729 | 0619 | 0728 | 0527 | 0626 | 0523 | 0720 | 0718 | 0515 | 0712 | 0411 | 0708 | 0505 | 0702 | 0700 | 0328 | 0725 | 0624 | 0721 | 0619 | 0716 | 0614 | 0711 | 0508 | | | 0705 |
| 0.02 Furan 104wk | 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 | 0729 | males (cont...) |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mediastinal, Erythrophagocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Renal, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Lymph Node, Mandibular Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Infiltration Cellular, Plasma Cell | 2 | 2 | 4 | | 2 | | 2 | | 2 | | 3 | | 1 | | 2 | 3 | 2 | | 3 | | | | | | | 2 | 2 | 3 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 |
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0619 | 0728 | 0567 | 0655 | 0772 | 0778 | 0592 | 0712 | 0478 | 0756 | 0778 | 0328 | 0788 | 0380 | 0798 | 0669 | 0765 | 0679 | 0661 | 0665 | 0794 | 0642 | 0758 | | |
| | 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 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 7 | 1 | 1 | 2 | 3 | 4 | 4 | 1 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 1 | |
| | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |

Pigmentation
 Sinus, Dilatation

2

Spleen
 Fibrosis
 Hematopoietic Cell Proliferation
 Hemorrhage
 Hyperplasia, Lymphoid
 Hyperplasia, Stromal
 Necrosis
 Pigmentation
 Capsule, Fibrosis

+ + + + + + + + + + + + + + + A + + + + + +
 2
 3
 2
 3
 2

Thymus
 Atrophy

+
 4 4 4 4 4 4 4 4 4 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4

INTEGUMENTARY SYSTEM

Mammary Gland
 Galactocele
 Hemorrhage
 Inflammation, Chronic Active
 Alveolus, Dilatation
 Epithelium, Hyperplasia
 Lobular, Hyperplasia

+
 X
 2 4 3 1
 2 1 3

Skin
 Abscess
 Cyst Epithelial Inclusion
 Fibrosis

+
 4
 X
 3

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|--------------------|
| | 0729 | 0619 | 0728 | 0527 | 0626 | 0523 | 0702 | 0728 | 0522 | 0709 | 0421 | 0705 | 0707 | 0322 | 0708 | 0308 | 0709 | 0629 | 0709 | 0626 | 0702 | 0609 | 0604 | 0702 | | | 0507 |
| | 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 | 0276 | males
(cont...) |
| Ventricle, Dilatation | | | | 3 | | | | | | 1 | 2 | | | | 1 | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | 2 | | | | | 1 | 3 | | | | | | 2 | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + |
| Foreign Body | | | | | | | X | | | | | | X | | | | X | | | | | | | | X |
| Inflammation, Suppurative | | | | | | | 1 | | | | | | 2 | | | | 1 | | | | | | | | 2 |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0729 | 0619 | 0728 | 0527 | 0626 | 0525 | 0727 | 0727 | 0525 | 0724 | 0725 | 0727 | 0727 | 0328 | 0727 | 0626 | 0727 | 0626 | 0729 | 0626 | 0626 | 0724 | 0528 | 0725 | | | 0729 |
| | 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 | 0729 | |
| | 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 | 0729 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0729 | |
| | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0729 | |
| | 6 | 7 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 1 | 1 | 2 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 8 | 8 | 0729 | |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 0729 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|--|---|--|--|--|--|--|
| Renal Tubule, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | 1 | 1 | 4 | 2 | 2 | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bulbourethral Gland, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | 1 | | | | | | | 2 | | | | | 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | |
|-------------|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-----------------|----|----|
| | 04 | 06 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | 05 | 05 | 07 | 07 | 05 | 05 | 07 | 07 | 05 | 06 | | | 07 | 06 |
| 00 | 00 | 02 | 02 | 02 | 08 | 02 | 02 | 02 | 02 | 08 | 05 | 05 | 07 | 07 | 00 | 05 | 02 | 02 | 01 | 02 | 05 | 02 | 06 | 08 |
| 03 | 07 | 09 | 09 | 09 | 09 | 05 | 08 | 08 | 00 | 05 | 05 | 07 | 08 | 07 | 05 | 08 | 08 | 04 | 04 | 04 | 04 | 04 | 04 | 04 |
| 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 |
| 01 | 03 | 03 | 03 | 03 | 03 | 03 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 03 | 03 | 03 | 03 |
| 09 | 06 | 07 | 07 | 08 | 08 | 09 | 01 | 01 | 02 | 02 | 03 | 04 | 04 | 09 | 09 | 00 | 01 | 01 | 02 | 02 | 02 | 03 | 03 | 03 |
| 02 | 02 | 01 | 02 | 01 | 02 | 02 | 01 | 02 | 01 | 02 | 01 | 01 | 02 | 01 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 01 | 02 | 01 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | X | | X | | | X | | | | | | | | | X | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|----|
| | 04 | 06 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | 05 | 05 | 07 | 07 | 05 | 05 | 07 | 07 | 05 | 07 | 06 | 07 | 06 | 06 | | | 07 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 03 | | |
| | 0 | 0 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 8 | 7 | 1 | 2 | 0 | 5 | 2 | 2 | 1 | 2 | 5 | 2 | 6 | 6 | 7 | 03 | |
| | 3 | 7 | 9 | 9 | 9 | 9 | 5 | 8 | 8 | 0 | 5 | 5 | 7 | 8 | 7 | 5 | 8 | 8 | 4 | 8 | 4 | 4 | 2 | 5 | 8 | 01 | |
| | 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 | 03 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 01 | |
| | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 09 | |
| | 9 | 6 | 7 | 7 | 8 | 8 | 9 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 02 | |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 02 | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deformity | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | 2 | | 1 | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | 2 | | | | | 2 | | | | 2 | | | | | | 2 | | | | | | | | | | | |
| Hemorrhage | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Biliary Tract, Hyperplasia | | | | 1 | 1 | 2 | | 1 | 2 | 2 | | 3 | 1 | | 1 | | 1 | 2 | | | | 2 | 4 | | 1 | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Periportal, Vacuolization Cytoplasmic | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|
| | 0
4
0
3 | 0
6
0
7 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
5
8
9 | 0
6
2
5 | 0
7
2
8 | 0
7
2
8 | 0
6
2
0 | 0
5
8
5 | 0
5
7
5 | 0
7
1
7 | 0
7
2
8 | 0
5
0
7 | 0
5
2
5 | 0
7
2
8 | 0
7
1
4 | 0
5
2
4 | 0
6
5
4 | | | 0
7
2
9 |
| Oral Mucosa | + | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Acinus, Degeneration | 4 2 | | | | | | | | | | | | | | | | | | | | 3 | 2 | |
| Artery, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2 2 | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 4 2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 4 3 2 1 | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 3 1 2 | |

* .. 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

1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | | |
|-------------|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-----------------|----|----|----|----|--|
| | 04 | 06 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | 05 | 05 | 07 | 07 | 05 | 05 | 07 | 07 | 05 | 06 | | | 07 | 06 | 06 | 07 | |
| 00 | 00 | 02 | 02 | 02 | 08 | 02 | 02 | 02 | 02 | 08 | 07 | 01 | 02 | 00 | 05 | 02 | 02 | 01 | 02 | 05 | 02 | 06 | 08 | 02 | 03 | | |
| 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 03 | |
| 01 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 07 | 07 | 07 | 07 | 07 | 07 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 03 | 03 | 03 | 03 | 01 | |
| 09 | 06 | 07 | 07 | 08 | 08 | 09 | 01 | 01 | 02 | 02 | 03 | 04 | 04 | 09 | 00 | 01 | 01 | 01 | 02 | 02 | 02 | 03 | 03 | 03 | 03 | 02 | |
| 02 | 02 | 01 | 02 | 01 | 02 | 02 | 01 | 02 | 02 | 01 | 02 | 01 | 02 | 01 | 02 | 02 | 01 | 02 | 02 | 02 | 02 | 01 | 02 | 02 | 01 | 02 | |

Tongue

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | X | | | | | | X | | | | | | | X | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Angiectasis | | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 3 | 2 | 2 | 2 | | | 4 | | | 4 | 2 | 2 | | 2 | 2 | | 2 | 1 | 3 | | 2 | 2 | 2 | 2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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

Experiment Number: 10119 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Furan
CAS Number: 110-00-9

Date Report Requested: 06/03/2014
Time Report Requested: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

| DAY ON TEST | 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 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------|---|---|
| FISCHER 344 RATS-NCTR 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 | 0 | |
| 0.02 Furan 104wk | 4 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 5 | 5 | 7 | 7 | 5 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | |
| ANIMAL ID | 3 | 7 | 9 | 9 | 9 | 9 | 5 | 8 | 8 | 8 | 0 | 5 | 5 | 7 | 8 | 7 | 5 | 8 | 4 | 8 | 4 | 9 | 2 | 5 | 8 | 8 | |
| | 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | |
| | 9 | 6 | 7 | 7 | 8 | 8 | 9 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | males (cont...) | | |

Tissue NOS

GENITAL SYSTEM

Ductus Deferens

Epididymis

Exfoliated Germ Cell

Hypospermia

Epithelium, Degeneration

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 2 | 2 | 2 | | 2 | 2 | | | 2 | | | | | | | | | | | | | | 2 | | | |
| | | | | 4 | 3 | 3 | 2 | 4 | | | | 3 | 4 | | | | 4 | | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 |
| | | | 2 | 2 | | 3 | | 3 | | | | 2 | 3 | | | | 3 | | 3 | 3 | | 4 | | 2 | | 2 |

Preputial Gland

Abscess

Edema

Fibrosis

Inflammation, Suppurative

Inflammation, Chronic Active

Necrosis

Acinus, Degeneration

Acinus, Hyperplasia

Duct, Ectasia

Epithelium, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 2 | 3 | | 2 | 3 | 2 | 2 | 2 | | 2 | 4 | 3 | | | 4 | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| | 4 | 4 | | 4 | 4 | 2 | 4 | | 4 | 4 | | 2 | 4 | 4 | | | 4 | 3 | 2 | | 4 | 2 | 2 | | 3 | 4 |
| 2 | | | 2 | | | | | 2 | | | 2 | | | | 3 | 2 | | | | 4 | 2 | 2 | | | | |
| | | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| | 3 | 4 | | 3 | 2 | | 4 | 2 | 4 | 4 | 2 | | 4 | 4 | | | 4 | 2 | 2 | | 2 | | 3 | 2 | | 2 |

Prostate

Abscess

Atrophy

Degeneration, Cystic

Fibrosis

Inflammation, Suppurative

Inflammation, Chronic Active

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | 2 | | 2 | | | 3 | | | | | | | | | 3 | | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 3 | | 4 | | | | | | | 2 | | | | | | |
| 2 | | 1 | 1 | 2 | 1 | 1 | 2 | | 4 | | 2 | 4 | | | 2 | 2 | | | 3 | 1 | 2 | | | 2 | | |
| | | | | | | | 2 | | | | | | | | | | 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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 Furan
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 4 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 5 | 5 | 7 | 7 | 5 | 5 | 7 | 7 | 5 | 7 | 5 | 7 | 6 | 7 | 6 | 6 | 7 |
| 0 | 0 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 8 | 7 | 1 | 2 | 0 | 5 | 2 | 2 | 1 | 2 | 5 | 2 | 2 | 6 | 6 | 8 | 2 |
| 3 | 7 | 9 | 9 | 9 | 9 | 5 | 8 | 8 | 0 | 5 | 5 | 7 | 8 | 7 | 5 | 8 | 8 | 4 | 8 | 4 | 9 | 2 | 5 | 8 | 8 | |
| 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 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | |
| 9 | 6 | 7 | 7 | 8 | 8 | 9 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 9 | 9 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | |
| 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | |

Mineralization
 Pigmentation
 Epithelium, Hyperplasia

1 1 3 2 1 3

Seminal Vesicle
 Atrophy
 Inflammation, Suppurative
 Epithelium, Hyperplasia
 Lumen, Dilatation

+
 2 2 2 2 2 3 2 3 2 3 4

Testes
 Polyarteritis
 Interstitial Cell, Hyperplasia
 Seminiferous Tubule, Degeneration

+
 2 2 1 1 2 3 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 2 2 4 2 3 3 4 3 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4

HEMATOPOIETIC SYSTEM

Bone Marrow
 Fibrosis
 Myelostromal Proliferation
 Myeloid Cell, Hyperplasia

+
 3 2 2 4

Lymph Node
 Hepatic, Inflammation, Granulomatous
 Lumbar, Hemorrhage
 Lumbar, Hyperplasia, Lymphoid
 Lumbar, Infiltration Cellular, Histiocyte
 Lumbar, Infiltration Cellular, Plasma Cell
 Lumbar, Pigmentation
 Lumbar, Sinus, Dilatation

+
 3 3 2

* .. 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
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 Furan
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-----------------|----|
| | 04 | 06 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | 05 | 05 | 07 | 07 | 05 | 05 | 07 | 07 | 05 | 07 | 06 | 07 | 06 | 06 | | | 07 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 03 | | |
| | 4 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 5 | 5 | 7 | 7 | 5 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 6 | 6 | 7 | 37 | |
| | 0 | 0 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 8 | 7 | 1 | 2 | 0 | 5 | 2 | 2 | 1 | 2 | 5 | 2 | 6 | 8 | 2 | 19 | |
| | 3 | 7 | 9 | 9 | 9 | 9 | 5 | 8 | 8 | 0 | 5 | 5 | 7 | 8 | 7 | 5 | 8 | 8 | 4 | 8 | 4 | 2 | 5 | 8 | 8 | 2 | |
| | 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 | 03 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | |
| | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 9 | |
| | 6 | 7 | 7 | 8 | 8 | 9 | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 4 | 2 | |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|---|--|--|---|---|--|--|---|---|--|---|--|--|--|--|--|--|--|--|--|--|---|
| Mediastinal, Erythrophagocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | 2 | | | | | 2 | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lymph Node, Mandibular Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Lymphoid | | | | | 2 | | | | | | | | | 1 | | | | | | | | | | | 2 | | |
| Infiltration Cellular, Plasma Cell | | | | 2 | 2 | 2 | | | 2 | | | | | 2 | | 2 | 3 | 3 | | | | | | | 2 | 4 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | | | 2 | | 3 | | 1 | | | | | | | | | | 2 | | | 2 | 2 | | | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Lymphoid | | 2 | | 2 | 2 | | 2 | | 2 | | | | | 1 | | | | 1 | 2 | 1 | | | | | 2 | 1 | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
4
0
3 | 0
6
0
7 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
5
8
9 | 0
6
2
5 | 0
7
2
8 | 0
7
2
8 | 0
6
2
0 | 0
5
8
5 | 0
5
7
5 | 0
7
1
7 | 0
7
2
8 | 0
5
0
7 | 0
5
2
5 | 0
7
2
8 | 0
7
2
4 | 0
5
5
4 | 0
7
2
4 | | | 0
6
5
4 | 0
7
2
9 | 0
6
6
2 | 0
6
8
5 | 0
7
8
8 |
| | 0
3
1
9
2 | 0
3
3
6
2 | 0
3
3
7
1 | 0
3
3
7
2 | 0
3
3
8
1 | 0
3
3
8
2 | 0
3
3
9
1 | 0
3
3
9
1 | 0
3
7
1
2 | 0
3
7
1
2 | 0
3
7
2
2 | 0
3
7
3
1 | 0
3
7
4
1 | 0
3
7
4
2 | 0
4
0
1
1 | 0
4
0
1
2 | 0
4
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2 | 0
4
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2 | 0
4
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1
2 | 0
4
1
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2 | 0
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1
2 | 0
4
3
2
2 | 0
4
3
3
3 | 0
4
3
3
4 | 0
4
3
3
4 | 0
4
4
1
2 |

Pigmentation
 Sinus, Dilatation

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | 2 | | | 4 | | | | | 2 | | | | 3 | | | | | | | 4 | 4 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Stromal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 2 | | | | 2 | 2 | | | | | | 2 | | | 3 | 1 | | 4 | | 3 | | | | | | | |
| Capsule, Fibrosis | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | | | X | | | | | X | | | | X | | | X | | X | X | X | X | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Dilatation | 2 | | | | | | 2 | | | | | 3 | | | 2 | | | | | | | | | 3 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lobular, Hyperplasia | | | | | 3 | | | | | | | | | | | | 4 | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 |
| | 4 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 5 | 5 | 7 | 7 | 5 | 5 | 7 | 7 | 5 | 7 | 5 | 7 | 6 | 6 | 7 |
| | 0 | 0 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 8 | 7 | 1 | 2 | 0 | 5 | 2 | 2 | 1 | 2 | 5 | 2 | 6 | 8 | 8 | 2 |
| | 3 | 7 | 9 | 9 | 9 | 9 | 5 | 8 | 8 | 0 | 5 | 5 | 7 | 8 | 7 | 5 | 8 | 8 | 4 | 8 | 4 | 2 | 2 | 5 | 8 |
| | 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 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | |
| | 9 | 6 | 7 | 7 | 8 | 8 | 9 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | |

Hyperkeratosis
 Epithelium, Hyperplasia

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | + | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |
| Compression | | | | | | | | | 4 | | | | | | | | | 3 | | | | | 4 | 4 | 4 | 4 | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | |
| Gliosis | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-----------------|----|----|
| | 04 | 06 | 07 | 07 | 07 | 05 | 06 | 07 | 07 | 06 | 05 | 05 | 07 | 07 | 05 | 05 | 07 | 07 | 05 | 07 | 06 | 07 | 06 | | | 06 | 07 |
| | 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 | | |
| | 3 | 7 | 9 | 9 | 9 | 9 | 5 | 8 | 8 | 8 | 0 | 5 | 5 | 7 | 8 | 7 | 5 | 5 | 8 | 8 | 4 | 8 | 2 | 5 | 8 | 3 | |
| | 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | |
| | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | |
| | 9 | 6 | 7 | 7 | 8 | 8 | 9 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 4 | |

Ventricle, Dilatation

1

Peripheral Nerve

Spinal Cord, Cervical

Spinal Cord, Lumbar

Spinal Cord, Thoracic

RESPIRATORY SYSTEM

Lung

Congestion

Hemorrhage

Infiltration Cellular, Histiocyte

Inflammation, Suppurative

Inflammation, Chronic

Inflammation, Chronic Active

Necrosis

Pigmentation

Polyarteritis

Alveolar Epithelium, Hyperplasia

Nose

Foreign Body

Inflammation, Suppurative

Goblet Cell, Hyperplasia

Trachea

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | 1 | 2 | | | | | | | | 4 | | | 3 | | | |
| Inflammation, Suppurative | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | 4 | | | | | | | | | | 1 | | |
| Pigmentation | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | X | | |
| Inflammation, Suppurative | | | | 1 | 1 | | | | | | | | 1 | | | | | | | | 1 | | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10119 - 01
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | 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 | ANIMAL ID | males
(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | | 4 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 5 | 5 | 7 | 7 | 5 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | | | |
| | 0 | 0 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 8 | 7 | 1 | 2 | 0 | 5 | 2 | 2 | 1 | 2 | 5 | 2 | 2 | 6 | 8 | 2 | 2 | 3 | | |
| | 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 | 3 | |
| | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 1 | | |
| | 9 | 6 | 7 | 7 | 8 | 8 | 9 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 2 | | |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | | |

Inflammation, Suppurative

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 2 | 2 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 2 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 1 | 3 | 4 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------------|
| FISCHER 344 RATS-NCTR RATS MALE
0.02 Furan 104wk | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 4 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 5 | 5 | 7 | 7 | 5 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 6 | | 6 | 7 |
| | | 0 | 0 | 2 | 2 | 2 | 8 | 2 | 2 | 2 | 2 | 8 | 7 | 1 | 2 | 0 | 5 | 2 | 2 | 1 | 2 | 5 | 2 | 6 | | 8 | 2 |
| | | 3 | 7 | 9 | 9 | 9 | 9 | 5 | 8 | 8 | 0 | 5 | 5 | 7 | 8 | 7 | 5 | 8 | 8 | 4 | 8 | 4 | 8 | 2 | | 5 | 8 |
| | 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 | males
(cont...) |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | |
| | 9 | 6 | 7 | 7 | 8 | 8 | 9 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 9 | 9 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 4 | |
| | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | |

Renal Tubule, Degeneration
 Renal Tubule, Dilatation
 Transitional Epithelium, Hyperplasia

2 2 1 1

Urethra
 Bulbourethral Gland, Inflammation, Suppurative
 Lumen, Dilatation

Urinary Bladder
 Hemorrhage
 Inflammation, Suppurative
 Inflammation, Chronic Active
 Lumen, Dilatation
 Transitional Epithelium, Hyperplasia

+
 2

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0631 | 0728 | 0542 | 0556 | 0578 | 0666 | 0678 | 0556 | 0627 | 0684 | 0667 | 0564 | 0634 | 0665 | 0346 | 0465 | 0718 | 0667 | 0675 | 0711 | | 0678 | 0660 |
| ANIMAL ID | 0434 | 0433 | 0433 | 0433 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 4 | 5 | 9 | 9 | 0 | 0 | 1 | 2 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 6 | 2 | 2 |
| | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | 142 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Lumen, Dilatation | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | 146 |
| Epithelium, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 146 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 145 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mucosa, Hyperplasia | | | | | 3 | 3 | | | | | | | | | | | 3 | 3 | | | | | | 8 2.6 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | 142 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | 142 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Basophilic Focus | | | | | | | X | X | | | | | | | | | | | | | | | | 16 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--------|
| | 0631 | 0728 | 0542 | 0556 | 0577 | 0666 | 0776 | 0556 | 0666 | 0776 | 0556 | 0666 | 0776 | 0556 | 0666 | 0776 | 0556 | 0666 | 0776 | 0556 | | 0666 |
| ANIMAL ID | 0434 | 0435 | 0433 | 0433 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | X | 4 |
| Deformity | | | X | | | | | | | | | | | | | | | | | | | 4 |
| Degeneration, Cystic | | | | 3 | | | | | | | | | | | | | | | | 1 | | 7 1.4 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | 1 |
| Granuloma | | | 1 | | | | | 1 | | | | | | 1 | 1 | | | | | | | 27 1.4 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | X | | | | | | | | | | | | 3 |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | 7 |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | 3 3.3 |
| Thrombosis | | | | X | | | | | | | | | | | | | | | | X | | 2 |
| Vacuolization Cytoplasmic | | | | | 4 | | | | | 2 | 3 | | | 2 | | 3 | | | 4 | | | 23 2.2 |
| Bile Duct, Biliary Tract, Hyperplasia | 1 | 2 | 1 | 4 | | | 1 | 2 | | | | 1 | 1 | | | 2 | | | 3 | 4 | 1 | 4 |
| Capsule, Fibrosis | | | | | 3 | | | | | | | | | | | | | | | | | 1 3.0 |
| Capsule, Inflammation, Chronic Active | | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 |
| Capsule, Necrosis | | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 |
| Centrilobular, Hepatocyte, Degeneration | | | | 2 | | | 2 | | 3 | 2 | | | | | | | | | | | 4 | 25 2.5 |
| Centrilobular, Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | 4 | 2 4.0 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | 2 | | 9 2.3 |
| Oval Cell, Hyperplasia | | | | 3 | | | 2 | | | | | | | | | | | | | | 4 | 15 2.5 |
| Periportal, Vacuolization Cytoplasmic | | | 2 | | | 4 | | | | | | | | | | | | | 3 | | 4 | 27 2.3 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | 35 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Fat, Necrosis | | | | | | | | | | 4 | | | 4 | | | | | | | 4 | | 31 3.9 |

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|-----|
| | 0631 | 0728 | 0542 | 0556 | 0578 | 0666 | 0678 | 0552 | 0668 | 0774 | 0667 | 0564 | 0663 | 0346 | 0455 | 0611 | 0708 | 0167 | 0665 | 0771 | | 0776 | 0660 | 0669 | |
| ANIMAL ID | 0434 | 0433 | 0433 | 0433 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 149 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Acinar Cell, Hyperplasia | | | | | | 4 | | | | 4 | | | | | | | | 3 | | | 3 | | | 16 | 2.9 |
| Acinus, Degeneration | 3 | | | | 1 | | | | | 3 | | | 1 | | | 2 | | | 1 | | | 2 | | 39 | 2.1 |
| Artery, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | |
| Edema | | | | | 4 | 3 | | | | 4 | 3 | | | | 2 | | | 2 | | 4 | 4 | | 3 | 22 | 3.2 |
| Inflammation, Chronic Active | | | | | 4 | 3 | | | | 4 | 2 | | | | 2 | 2 | | | 4 | 4 | | 2 | | 31 | 2.7 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Perforation | | | | | 4 | | | | | | | | | | | | | | 4 | 4 | | | | 5 | 4.0 |
| Ulcer | | | | | | 4 | | | | 4 | | | | | 2 | | | 1 | | 4 | | | | 17 | 3.1 |
| Epithelium, Hyperplasia | 2 | | 2 | 1 | 4 | 3 | | | | 3 | 2 | | | | 2 | 2 | | 2 | 4 | 4 | 1 | 3 | | 41 | 2.6 |
| Serosa, Fibrosis | | | | | 3 | | | | | 2 | | | | | | | | | | | | | | 4 | 3.0 |
| Serosa, Inflammation, Suppurative | | | | | 4 | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Serosa, Necrosis | | | | | 4 | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 145 | |
| Edema | | | | | | | | | | | | | | | | | | 2 | | | | 2 | | 5 | 3.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.3 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Mucosa, Hyperplasia | | | | | 3 | | | | | | | | | | | | | | 3 | 2 | | 2 | | 12 | 2.2 |

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0631 | 0728 | 0842 | 0556 | 0557 | 0678 | 0666 | 0752 | 0756 | 0827 | 0828 | 0947 | 0947 | 1034 | 1034 | 1163 | 1163 | 1251 | 1251 | 1338 | | 1338 | 1426 |
| ANIMAL ID | 04342 | 04431 | 04431 | 04432 | 04440 | 04441 | 04444 | 04444 | 04455 | 04455 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 | 04466 |

Tongue 1

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|---|---|---------|
| Blood Vessel Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | | |
| Cardiomyopathy | | 1 | 1 | | 1 | 2 | 2 | | | | 2 | 2 | 1 | 4 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 3 | 138 2.1 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mineralization | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|---------|-------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | | |
| Accessory Adrenal Cortical Nodule | | X | | | | | | | | | | | | | | | | | | | | | | | | 10 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia | | | | | | | | | | | 3 | | | | | | | | | | 2 | | | | | | 5 2.0 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Vacuolization Cytoplasmic | 4 | | 3 | | 2 | 3 | 2 | 2 | 3 | 4 | 3 | | 2 | 3 | 2 | 1 | 2 | 3 | | 3 | 3 | 4 | 4 | 2 | 3 | 114 2.4 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0631 | 0728 | 0542 | 0556 | 0578 | 0666 | 0678 | 0556 | 0666 | 0678 | 0666 | 0556 | 0666 | 0678 | 0666 | 0556 | 0666 | 0678 | 0666 | 0556 | | 0666 |
| ANIMAL ID | 0434 | 0433 | 0433 | 0433 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hyperplasia | 2 | 1 | | | 2 | | 3 | 1 | 2 | 2 | | | 1 | | 3 | | | 2 | | 1 | | 3 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | 2 |
| Thrombosis | | | | | | X | | | | | | | | | | | | | | | | 2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 8 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Hyperplasia | | | | | | 2 | | | | 2 | | | | | | | 1 | | 2 | | 2 | 25 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 148 |
| Hemorrhage | | | | | | | | | | | | 4 | | | | | | | | | | 5 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Cyst | X | | | | | | | | | | | | | | | | | | | | | 5 |
| Pars Distalis, Hyperplasia | | | | | | 2 | 2 | | | | | | | | | | 2 | | | | | 29 |
| Pars Distalis, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Ectopic Thymus | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | 1 |
| C-cell, Hyperplasia | 1 | 1 | 1 | 1 | 1 | | 2 | | | 2 | | | 1 | 1 | | 2 | | 2 | | 1 | | 83 |
| Follicle, Cyst | | | | | | | | | | X | | | | | | | | | | | | 6 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | 5 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS | | | |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|------|------|------|
| | 0631 | 0728 | 0542 | 0556 | 0578 | 0676 | 0772 | 0558 | 0662 | 0774 | 0667 | 0554 | 0663 | 0774 | 0665 | 0551 | 0660 | 0773 | 0668 | 0559 | | | 0667 | 0778 | 0660 |
| 0.02 Furan 104wk | 0434 | 0443 | 0443 | 0443 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 |

Tissue NOS + 1

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|
| Ductus Deferens | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Epididymis | | | | | | | | | | | | | | | | | | | | | | | | 149 | | |
| Exfoliated Germ Cell | 2 | + | 1 | + | + | 3 | + | 2 | 3 | 3 | 2 | + | + | + | + | + | + | + | + | + | + | 3 | + | 3 | 42 | 2.3 |
| Hypospermia | 3 | 4 | 3 | | 3 | 4 | 4 | 3 | 2 | | | | | | | | | 4 | 4 | 2 | | | 3 | | 79 | 3.6 |
| Epithelium, Degeneration | 3 | 2 | | | 3 | | | | 2 | 2 | | | | | | | | 3 | 4 | 3 | | | 3 | | 64 | 2.7 |
| Preputial Gland | | | | | | | | | | | | | | | | | | | | | | | | 150 | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | 18 | 4.0 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Fibrosis | 2 | 4 | 3 | 3 | 4 | 4 | 3 | 2 | 2 | | | | | | | | 3 | 2 | 3 | 2 | 3 | 2 | 3 | | 73 | 2.7 |
| Inflammation, Suppurative | 3 | 4 | | | 4 | 3 | 4 | 1 | | | | | | | | | 4 | 4 | | 4 | 2 | | | | 65 | 3.4 |
| Inflammation, Chronic Active | | | 2 | 3 | | | 2 | 2 | 2 | | | | | | | 2 | 2 | 3 | | | | | 2 | | 62 | 2.5 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 10 | 2.5 | |
| Duct, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 78 | 3.1 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | |
| Prostate | | | | | | | | | | | | | | | | | | | | | | | | 150 | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Atrophy | 2 | | | | | | | 3 | | | | | | | | | | | | | | | | | 29 | 2.5 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 6 | 2.0 | |
| Fibrosis | 2 | | | | | | | | | | | | | | | | | | | | | 3 | | | 8 | 3.1 |
| Inflammation, Suppurative | 3 | 3 | | 2 | 2 | 3 | | 2 | 2 | 4 | 2 | 3 | | | | 2 | 2 | 2 | 2 | 4 | 2 | 4 | 2 | 2 | 108 | 2.2 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 12 | 1.8 | |

* .. 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
 1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|---------|--------|
| | 0631 | 0728 | 0542 | 0556 | 0578 | 0666 | 0678 | 0556 | 0666 | 0678 | 0666 | 0556 | 0666 | 0678 | 0666 | 0556 | 0666 | 0678 | 0666 | 0556 | | 0666 | | |
| ANIMAL ID | 0434 | 0445 | 0449 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Epithelium, Hyperplasia | | 2 | | 2 | | | | 2 | | | | 2 | | | | | 1 | | | 2 | | 2 | | 39 1.9 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 146 | |
| Atrophy | 2 | | | | | 2 | | | | | 2 | | | | | | 3 | | 2 | | | 2 | 52 2.6 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Lumen, Dilatation | | | | | | | | 2 | | | | 2 | | | | | 2 | | 2 | | | | 14 2.3 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 149 | |
| Polyarteritis | | 1 | | | | | | 1 | | | | 2 | | | | | | 2 | | 1 | 2 | | 35 1.7 | |
| Interstitial Cell, Hyperplasia | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | | 1 | 3 | 1 | 1 | 1 | 2 | | 3 | | | 1 | | 1 | 72 1.3 | |
| Seminiferous Tubule, Degeneration | 3 | 4 | 4 | | | 4 | 2 | 4 | 4 | 3 | 2 | | | | | | 4 | | 4 | 2 | 2 | 3 | 106 3.2 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Myelostromal Proliferation | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Myeloid Cell, Hyperplasia | | | | | | | | 2 | | | | | | | | | 2 | | | | | 3 | 27 2.9 |
| Lymph Node | + | | + | + | | + | + | | + | + | | | | | | | + | | | + | + | + | 69 |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lumbar, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lumbar, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lumbar, Infiltration Cellular, Plasma Cell | | | 3 | | | | | | | | | | | | | | | | | | 2 | | 9 2.7 |
| Lumbar, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Lumbar, Sinus, Dilatation | | | | 3 | | | | | | | | | | | | | | | | 4 | | | 11 2.9 |

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS | | | | | | | | |
|--|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|------|------|------|------|------|------|------|-----|
| | 0631 | 0728 | 0542 | 0556 | 0557 | 0766 | 0767 | 0562 | 0568 | 0774 | 0668 | 0667 | 0562 | 0667 | 0344 | 0465 | 0651 | 0770 | 0163 | 0665 | | | 0771 | 0667 | 0666 | 0778 | 0777 | 0667 | 0669 | |
| 0.02 Furan 104wk | 0434 | 0443 | 0443 | 0443 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | | | |
| | 2 | 1 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Mediastinal, Erythrophagocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.5 | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | 2 | | | | | | | | | | | | | | | | | | | 2 | | 5 | 2.4 | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.5 | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 | |
| Pancreatic, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 | |
| Popliteal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Popliteal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Renal, Hemorrhage | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Renal, Hyperplasia, Lymphoid | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 4 | 2.5 | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Renal, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Renal, Sinus, Dilatation | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 | | | 5 | 2.0 | |
| Lymph Node, Mandibular Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | 3 | 2.0 |
| Hyperplasia, Lymphoid | | | 2 | 2 | | | 3 | | | 1 | | | | | 1 | | | | 1 | | 1 | | 2 | | | | | 31 | 1.8 | |
| Infiltration Cellular, Plasma Cell | | | 2 | | | | 2 | | 1 | | | 2 | | 2 | 2 | | 2 | 3 | | | 2 | 2 | 2 | | | | | 73 | 2.2 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Sinus, Dilatation | | | | 1 | | 2 | | | | | | | | | 4 | | 4 | | | | | | 2 | 2 | | | | 41 | 2.2 | |
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 146 | 2 | 1.5 |
| Hyperplasia, Lymphoid | | | 2 | | | | 2 | | 2 | | | | | | | | | | 2 | | 1 | 2 | 2 | | | | | 41 | 1.7 | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | 1 | | | | | | | | | 1 | | | | | | | | 11 | 1.8 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |

* .. 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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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0631 | 0728 | 0542 | 0556 | 0578 | 0666 | 0678 | 0552 | 0668 | 0577 | 0664 | 0667 | 0334 | 0465 | 0611 | 0510 | 0783 | 0665 | 0679 | 0771 | | 0660 |
| ANIMAL ID | 0434 | 0433 | 0433 | 0433 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|--|
| Pigmentation | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 149 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | 2 | 3.3 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | 2 | 2.3 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | | |
| Hyperplasia, Stromal | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 149 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 148 | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | X | 7.2 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Alveolus, Dilatation | | | | | | | | | | | | | | | | | | | | | 1 | 2.2 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | 1.6 | | |
| Lobular, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | 2.8 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | |
| Abscess | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | 5 | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | | |

* .. 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
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 1-4 .. Lesion qualified as:
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 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|
| | 0631 | 0728 | 0542 | 0556 | 0557 | 0768 | 0678 | 0758 | 0628 | 0784 | 0674 | 0567 | 0634 | 0665 | 0346 | 0511 | 0500 | 0783 | 0675 | 0679 | | 0711 | 0600 | 0609 |
| ANIMAL ID | 0.02 Furan 104wk | | | | | | | | | | | | | | | | | | | | | | | |
| | 0434 | 0433 | 0433 | 0433 | 0444 | 0444 | 0444 | 0444 | 0445 | 0445 | 0446 | 0446 | 0446 | 0446 | 0446 | 0446 | 0446 | 0446 | 0446 | 0447 | 0447 | 0447 | 0447 | 0447 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

| | | | |
|-------------------------|---|---|-------|
| Hyperkeratosis | 4 | 4 | 2 4.0 |
| Epithelium, Hyperplasia | | 3 | 1 3.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|----|-----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | |
| Compression | | 1 | 4 | | 3 | | | | | 3 | 3 | 3 | 3 | | 4 | 4 | 4 | | | 2 | 4 | 2 | | 3 | 2 | 62 | 3.2 |
| Hemorrhage | | | | | | | | | | | | 3 | | | | | | | | | | | | | | 7 | 2.7 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 149 | | |
| Gliosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 2.0 |
| Necrosis | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Ventricle, Dilatation | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 4 | 2.3 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0631 | 0728 | 0542 | 0556 | 0578 | 0668 | 0778 | 0558 | 0668 | 0778 | 0668 | 0558 | 0668 | 0778 | 0346 | 0456 | 0665 | 0775 | 0183 | 0667 | 0669 | 0770 | 0778 | 0667 | |
| ANIMAL ID | 0434 | 0433 | 0433 | 0433 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 | 0444 |
| Ventricle, Dilatation | | | | 1 | | | | | | | | | | | | 1 | 2 | | | | 2 | | | 1 | 15 1.5 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 149 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Infiltration Cellular, Histiocyte | | | | | | | | 3 | 1 | | | | | | | 1 | | | | 1 | | | | | 29 1.9 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 146 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| Inflammation, Suppurative | | | | | | | | 2 | | | | | 1 | | | | | | | | | | | | 26 1.7 |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 150 |

* .. 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
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 1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.02 Furan 104wk | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|------|------|
| | 0631 | 0728 | 0524 | 0528 | 0527 | 0626 | 0727 | 0626 | 0728 | 0527 | 0627 | 0628 | 0727 | 0527 | 0627 | 0624 | 0623 | 0527 | 0721 | 0626 | 0625 | 0721 | 0727 | 0627 | 0627 | 0627 | 0627 | 0627 | 0627 | 0627 | | 0627 | 0627 | | | | | |
| ANIMAL ID | 0434 | 0433 | 0433 | 0433 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 | 0434 |

Inflammation, Suppurative

1 1.0

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|---|-----|-----|-----|
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | 143 | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 7 | 2.9 |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | 150 | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 6 | 1.5 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 2.7 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|---|---|---|---|---|---|-----|--|--|--|--|--|--|--|--|--|--|-----|-----|-----|-----|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | 150 | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 15 | 1.5 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Nephropathy | 3 | 3 | 2 | 2 | 4 | 4 | 2 | 4 | 1 | 4 | 4 | 1 | 4 | 1 | 2 | 3 | 2 | 4 | | | | | 4 | 4 | 4 | 4 | 3 | 3 | | | | | | | | | | | | 147 | 3.1 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.7 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | 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 | * TOTALS | | | |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|----------|---|---|---|
| DAY ON TEST | | 6 | 7 | 5 | 5 | 5 | 7 | 6 | 7 | 5 | 6 | 6 | 5 | 6 | 3 | 4 | 6 | 5 | 7 | 1 | 6 | 6 | 7 | 7 | 6 | 6 | | | | |
| FISCHER 344 RATS-NCTR RATS MALE | | 3 | 2 | 4 | 8 | 4 | 0 | 6 | 2 | 7 | 8 | 2 | 6 | 7 | 4 | 7 | 4 | 5 | 1 | 1 | 0 | 8 | 7 | 5 | 1 | 1 | 0 | 0 | 0 | |
| | 0.02 Furan 104wk | 1 | 8 | 2 | 6 | 7 | 8 | 6 | 8 | 7 | 4 | 7 | 4 | 6 | 3 | 6 | 3 | 5 | 2 | 3 | 5 | 9 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | ANIMAL ID | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 4 | 5 | 9 | 9 | 0 | 0 | 1 | 2 | 9 | 9 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 6 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| | | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Renal Tubule, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 3 4.0 | | | | |
| | Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | | |
| | Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 39 1.6 | | | | |
| | Urethra | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| | Bulbourethral Gland, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | | |
| | Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | | |
| | Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | 150 | | | | |
| | Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | | |
| | Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | | |
| | Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | | | | |
| | Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 14 3.9 | | | | |
| | Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 8 1.6 | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 M .. Missing tissue
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Furan

CAS Number: 110-00-9

Date Report Requested: 06/03/2014

Time Report Requested: 08:42:42

First Dose M/F: 09/07/09 / NA

Lab: NCTR

| DAY ON TEST | | 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 |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS-NCTR RATS MALE | 0.044 Furan104wk | 5 | 4 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 1 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 5 | 7 | 4 | 3 | 5 | 7 | 7 | |
| | | 8 | 4 | 8 | 1 | 2 | 9 | 2 | 4 | 5 | 2 | 9 | 2 | 4 | 2 | 0 | 1 | 5 | 2 | 2 | 8 | 0 | 8 | 6 | 2 | 0 | |
| | | 3 | 3 | 9 | 2 | 9 | 4 | 5 | 5 | 9 | 8 | 7 | 8 | 9 | 8 | 7 | 2 | 9 | 4 | 5 | 8 | 8 | 0 | 9 | 8 | 8 | |
| | 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 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 4 | 5 | 5 | 6 | 6 | 7 | 9 | 9 | 0 | 1 | 1 | 2 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 4 | 5 | 5 | 6 | 7 | 7 | |
| | | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | |

males (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | A | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | A | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | A | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum Inflammation, Chronic Active Mucosa, Hyperplasia Serosa, Hemorrhage Serosa, Necrosis | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | A | + | + | |
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| Liver Basophilic Focus Clear Cell Focus Deformity Degeneration, Cystic Fibrosis | + | + | + | + | X | X | X | + | + | X | A | + | + | + | + | + | X | + | + | + | X | + | + | X | + |
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|------------------|
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| Granuloma | 1 | | | | 2 | | | | | | | | | 2 | | | | | | | | 1 | 1 | | 1 | 1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | 2 | | | | | | | | | | | | | | | 1 | | 1 | | | | 2 | |
| Bile Duct, Biliary Tract, Hyperplasia | 1 | | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | | 1 | 3 | 2 | | 1 | 1 | | 1 | 1 | 1 | | | 1 | 1 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | 3 | | | | 2 | | | 2 | | | 2 | | | | | | | 2 | | | | | | |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | 3 | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | |
| Periportal, Vacuolization Cytoplasmic | | 2 | 2 | | | | | 2 | 1 | | | | | | 2 | | | | | | 2 | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | + | | | + | + | | + | | | | | | + | | | | | + | + | | | | | + | + |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | 2 | | | 4 | 3 | | 4 | | | | | | 4 | | | | | 4 | 4 | | | | | 4 | 4 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Acinar Cell, Hyperplasia | | 4 | | | | 3 | | 3 | | | | | | | 3 | | | | | | 3 | | | 3 | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|-----------|--------------------|
| | 0583 | 0443 | 0689 | 0612 | 0729 | 0664 | 0665 | 0666 | 0667 | 0718 | 0717 | 0769 | 0674 | 0768 | 0677 | 0676 | 0754 | 0755 | 0788 | 0438 | 0359 | 0578 | 0778 | | | |
| Acinus, Degeneration | 1 | 2 | | | | 2 | | | | | | | | 2 | | | | | | 2 | | | | | | |
| Salivary Glands
Infiltration Cellular, Lymphocyte
Acinus, Degeneration | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Stomach, Forestomach
Edema
Fibrosis
Inflammation, Chronic Active
Necrosis
Perforation
Ulcer
Epithelium, Hyperplasia
Serosa, Fibrosis | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | 2 | | | | | | 2 | | | 2 | | 4 | | | | | | | | | | | | |
| | | | | 3 | | | | | 3 | | | 2 | | 3 | | | 2 | | | | | | | | | |
| | | | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 4 | | | | | | 4 | | | 2 | | 4 | | | 3 | | | | | | | | | |
| | | | 1 | | | | | | 3 | 3 | | 2 | | 4 | | | 2 | | | | | | | | | |
| Stomach, Glandular
Inflammation, Chronic Active
Mineralization
Necrosis
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 3 | | | | | | 3 | | | | | | | | | |
| Tongue
Foreign Body
Inflammation, Chronic Active
Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. 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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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 3 | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 3 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | | | 2 | | |
| Metaplasia, Osseous Mineralization | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | X | | | | | | | X | | | X | | X | | | | X | | | | | | |
| Atrium, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 1 | 3 | 1 | 2 | 2 | 3 | 3 | 2 | 3 | | 3 | 2 | 3 | | 2 | 2 | 4 | | | 2 | | 2 | 2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 3 | | 2 | | 2 | | | | | | | 2 | | | 1 | 2 | 2 | 4 | 2 | | | | 1 | 1 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | 2 | | | | | | 2 | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 Furan
 CAS Number: 110-00-9

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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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Hyperplasia

1 2 3 2 2 3

Pituitary Gland

+ +

Hemorrhage

4

Pars Distalis, Angiectasis

Pars Distalis, Cyst

Pars Distalis, Hyperplasia

Pars Distalis, Necrosis

Pars Intermedia, Cyst

4 2 2 3

Thyroid Gland

+ + + + + + + + + + A + + + + + + + + + + + + + +

Fibrosis

Ultimobranchial Cyst

C-cell, Hyperplasia

Follicle, Cyst

Follicular Cell, Hyperplasia

1 1 3 1 1 3 2 2 2 2 1 2 3 1 3 1

X

GENERAL BODY SYSTEM

Peritoneum

Tissue NOS

Inflammation, Suppurative

GENITAL SYSTEM

Epididymis

+ + + + + + + + + + A + + + + + + + + + + + + + +

Degeneration, Cystic

Exfoliated Germ Cell

Fibrosis

1 2 2 3 4 3

* .. 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

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0583 | 0443 | 0669 | 0662 | 0729 | 0664 | 0665 | 0666 | 0669 | 0778 | 0717 | 0767 | 0664 | 0722 | 0668 | 0767 | 0665 | 0752 | 0772 | 0448 | 0330 | 0556 | 0772 | 0778 | | |
| Hypospermia | 2 | | | | | | | | | 4 | | | | | 4 | | 4 | 4 | | | 4 | 4 | | | | |
| Epithelium, Degeneration | | | | | | | | | | 4 | | | | | 3 | 1 | | | | 3 | | 2 | 3 | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Abscess | 4 | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Fibrosis | | | 3 | | | | | 2 | | | 4 | | 2 | | 3 | 4 | | | | | | 3 | 3 | | | |
| Inflammation, Suppurative | | 4 | 4 | 4 | | 3 | | | | 4 | | | | 2 | 3 | | 2 | | | 4 | 4 | 4 | | | | |
| Inflammation, Chronic Active | | | | | 1 | | 3 | 3 | 3 | | 4 | 2 | 2 | | | | | | 2 | | | | 3 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Duct, Ectasia | | 4 | 4 | 4 | | 2 | | | | 4 | 2 | 2 | | | | | | 2 | | | 2 | 4 | 2 | | | |
| Prostate | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | | | | | | | | | 2 | | | | | | | | | | | 2 | | 2 | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Inflammation, Suppurative | 3 | | 3 | 3 | 1 | 2 | 2 | 4 | | 4 | 2 | 1 | 2 | 1 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Inflammation, Chronic Active | | 1 | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | | | | | | | | | | 3 | | | | | | | | | | 3 | | 3 | 3 | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Polyarteritis | 2 | | | 2 | | 1 | | 1 | | | | | | 2 | | | | 2 | | 3 | | | | | | |
| Interstitial Cell, Hyperplasia | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | | | | | 1 | | | | | | | | 1 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | | 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 |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| FISCHER 344 RATS-NCTR RATS MALE | | 8 | 4 | 8 | 1 | 2 | 9 | 2 | 4 | 5 | 2 | 9 | 8 | 7 | 8 | 9 | 8 | 7 | 6 | 7 | 5 | 2 | 2 | 8 | 0 | 8 | 6 | 2 | 8 | 0 | 8 | 9 | 6 | 2 | 0 | 8 | 0 | 8 | | |
| 0.044 Furan104wk | | 3 | 3 | 9 | 2 | 9 | 4 | 5 | 5 | 9 | 8 | 7 | 8 | 9 | 8 | 8 | 7 | 6 | 7 | 5 | 2 | 2 | 8 | 0 | 8 | 6 | 2 | 8 | 0 | 8 | 9 | 6 | 2 | 0 | 8 | 0 | 8 | | | |
| | | 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 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 4 | 5 | 5 | 6 | 6 | 7 | 9 | 9 | 0 | 1 | 1 | 2 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | |
| Seminiferous Tubule, Degeneration | | 2 | | | | 2 | | 2 | 2 | 4 | | 3 | 2 | 2 | | 4 | 2 | 4 | | 4 | | | | 4 | | 4 | | 4 | | | | | | | | | | | | |

males
(cont...)

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Myeloid Cell, Hyperplasia | | 3 | 3 | | | | | | | | | | 2 | | | | 2 | | | | 2 | | 4 | | 2 | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | + | + | + | | + | | | | | + | + | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Axillary, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Pancreatic, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0583 | 0443 | 0689 | 0612 | 0729 | 0664 | 0665 | 0666 | 0667 | 0678 | 0717 | 0776 | 0777 | 0789 | 0798 | 0799 | 0674 | 0757 | 0772 | 0778 | 0430 | 0359 | 0777 | 0778 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | 2 | 2 | 1 | | | | | 2 | 2 | | | | | | | | | | | | 1 | | | |
| Infiltration Cellular, Plasma Cell | 3 | | 2 | | | 2 | | | | 2 | | | 2 | | | 2 | | | | | | 2 | 1 | 2 | | |
| Sinus, Dilatation | 4 | | | | | | 2 | | | | | 2 | | | 2 | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | 1 | 2 | 2 | | | | | | | | | | | 2 | | | | | | | 2 | 1 | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | 4 | | | 4 | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 3 | | | 1 | | | | 2 | | | | 1 | | | | | | | 2 | 3 | 4 | 1 | | 2 | | |
| Hyperplasia, Lymphoid | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Pigmentation | | 3 | | | 2 | 2 | | | | | | | | | 2 | | | | 2 | | 2 | | 3 | 2 | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | X | | X | X | X | X | X | X | X | X | | X | X | X | | | | X | X | X | | X | X |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|-----------------------|------------------|
| | 0
5
8
3 | 0
4
4
3 | 0
6
8
9 | 0
6
1
2 | 0
7
2
9 | 0
6
6
4 | 0
6
2
5 | 0
6
4
5 | 0
6
5
9 | 0
7
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8 | 0
1
9
7 | 0
7
2
8 | 0
6
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9 | 0
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8 | 0
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5 | 0
7
2
4 | 0
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2
5 | 0
7
2
8 | 0
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8 | | | 0
3
6
9 | 0
5
2
8 |
| | 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
4
1 | 0
1
1 |

Inflammation, Granulomatous 3
 Inflammation, Chronic Active
 Alveolus, Dilatation 3 2 1 3
 Epithelium, Hyperplasia
 Lobular, Hyperplasia 3 2 3 1

Skin +
 Abscess 3
 Cyst Epithelial Inclusion X X
 Fibrosis
 Inflammation, Granulomatous
 Epithelium, Hyperplasia
 Tail, Cyst Epithelial Inclusion X

MUSCULOSKELETAL SYSTEM

Bone, Femur +
 Fibrous Osteodystrophy 1 1 2
 Osteopetrosis
 Skeletal Muscle
 Necrosis

NERVOUS SYSTEM

Brain, Brain Stem + + + + + + + + + + A + + + + + + + + + + + + + + + + +
 Compression 2 1 3 4 4 2 2 3 2 4 4
 Hemorrhage
 Brain, Cerebellum + + + + + + + + + + A + + + + + + + + + + + + + + + + +

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE
0.044 Furan104wk | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|--------------------|
| | 0
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5 | 0
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9 | 0
7
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8 | 0
1
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7 | 0
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8 | 0
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4
9 | 0
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8 | 0
3
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0 | 0
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9 | 0
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2
8 | 0
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9 | 0
7
2
8 | | | |
| ANIMAL ID | 0
0
0
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1 | 0
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0
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2 | 0
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1 | 0
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6
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1 | 0
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8 | 0
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9
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8
9
2 | 0
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1 | 0
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2
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1
2
7
1 | 0
1
2
8
1 | 0
1
2
9
2 | 0
1
2
9
2 | | |

Hemorrhage
 Metaplasia, Osseous
 Necrosis
 Ventricle, Dilatation

1

Brain, Cerebrum
 Hemorrhage
 Mineralization
 Ventricle, Dilatation

+ + + + + + + + + + A + + + + + + + + + + + + + + +

2

2

1

Peripheral Nerve

Spinal Cord, Cervical

Spinal Cord, Lumbar

Spinal Cord, Thoracic

RESPIRATORY SYSTEM

Lung
 Hemorrhage
 Infiltration Cellular, Histiocyte
 Inflammation, Chronic Active
 Necrosis
 Alveolar Epithelium, Hyperplasia
 Bronchiole, Epithelium, Hyperplasia

+ + + + + + + + + + A + + + + + + + + + + + + + + +

2 1

2

1

3

2

Nose
 Foreign Body

+ + + + + + + + + + A + + + + + + + + + + + + + + +

X

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | 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 | |
| | | 5 | 4 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 1 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 5 | 7 | 4 | 3 | 5 | 7 | |
| | | 8 | 4 | 8 | 1 | 2 | 9 | 2 | 4 | 5 | 2 | 9 | 2 | 4 | 2 | 0 | 1 | 5 | 2 | 2 | 8 | 0 | 8 | 6 | 2 | 0 |
| | | 3 | 3 | 9 | 2 | 9 | 4 | 5 | 5 | 9 | 8 | 7 | 8 | 9 | 8 | 7 | 2 | 9 | 4 | 5 | 8 | 0 | 9 | 8 | 8 | |
| | | 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 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 2 | 2 | 2 | 2 | |
| | | 4 | 5 | 5 | 6 | 6 | 7 | 9 | 9 | 0 | 1 | 1 | 2 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 4 | 5 | 5 | 6 | 7 | |
| | | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation, Suppurative
Osteopetrosis
Goblet Cell, Hyperplasia | 2 | | | | | | | 2 | | | | | | | 2 | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | |
| Cataract | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Adventitia, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | 4 | | | | 3 | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | + | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | X | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | 3 | | | | 2 | |
| Nephropathy | 4 | 2 | 3 | 4 | 2 | 4 | 2 | 4 | 4 | 4 | | 4 | 4 | 4 | 3 | 4 | 2 | 4 | 4 | 4 | 1 | 2 | 2 | 3 |
| Polycystic Kidney | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. 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
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 2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|
| | 0583 | 0443 | 0069 | 0062 | 0079 | 0064 | 0065 | 0065 | 0069 | 0088 | 0077 | 0088 | 0069 | 0076 | 0088 | 0076 | 0067 | 0075 | 0074 | 0057 | 0074 | 0043 | | 0058 | 0069 | 0078 | 0077 | 0078 |
| Transitional Epithelium, Hyperplasia | | | | 1 | | 1 | | | | | 1 | 3 | | | 2 | 1 | | | | | 2 | 2 | | 1 | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | 3 | | | | | | | | | 3 | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0728 | 0599 | 0703 | 0596 | 0556 | 0679 | 0664 | 0668 | 0728 | 0689 | 0660 | 0656 | 0771 | 0778 | 0549 | 0446 | 0683 | 0778 | 0773 | 0668 | | | 0728 | 0468 | 0732 |
| | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 1 | 2 | 2 | 3 | 2 | 3 | 4 | 4 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 4 | 4 | 8 | 9 | 1 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Large, Colon
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + |
| Intestine Small, Ileum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Small, Jejunum
Inflammation, Chronic Active
Mucosa, Hyperplasia
Serosa, Hemorrhage
Serosa, Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | X | | | | | | X | | | X | | | | | | | X | | | X | | | | |
| Clear Cell Focus | | | | | | | | | X | | | | | | | | | | | | | | | |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | 1 | | 4 | | | | | | | | | | | | | | | | 2 | | 1 | | | |
| Fibrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
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| Granuloma | | | | 1 | | | 1 | | | | | | | | | | 1 | | | | | | | | | | |
| Hemorrhage | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | X | | | | | X | | |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | 1 | | | | | | | | | | | | | | | | | 3 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 1 | 4 | | | | | | | 1 | | | | | | | | | | | | | | | | | | 2 |
| Bile Duct, Biliary Tract, Hyperplasia | 1 | | 4 | | | 1 | 1 | | | 4 | 2 | 1 | 1 | 1 | 2 | 2 | | | | 2 | 1 | 3 | | | | 3 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | 3 | | | 2 | | | 4 | | | | | 2 | 2 | | | 3 | | | 2 | | | | | |
| Hepatocyte, Hypertrophy | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | 4 | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 |
| Oval Cell, Hyperplasia | | 3 | 2 | | | | | | | | | | | | | 2 | | | | | | 2 | | | | | |
| Periportal, Vacuolization Cytoplasmic | | | | | 2 | | | | | | | | | | | | | 2 | | | | | | 3 | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | + | | | | | | | | | | | | + | | | + | | | | | | | | + | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | 4 | | | | | | | | | | | | | 4 | | 4 | | | | | | | | 4 | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Polyarteritis | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acinar Cell, Hyperplasia | | 2 | | | | | | | | | 3 | | | | | | | | | | | | | | | 3 | 3 |

* .. 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
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1-4 .. Lesion qualified as:
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 Furan
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|--------------------|
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8 | | | |
| Acinus, Degeneration | | | | 1 | | | | | | 2 | 4 | 2 | | 1 | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | | 3 | | | | 4 | | | | | | | | | | | | | | | 4 | 2 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | 4 | | | 4 | 4 | | | | 1 | | | | | | | | | | 4 | | 3 | | |
| Necrosis | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | 4 | | | | | | | | | | | | | | | | | | 4 | | | | |
| Ulcer | | | | | | | | | 4 | 4 | | | | | | | | | | | | | | | 3 | | |
| Epithelium, Hyperplasia | | | | | 4 | | | 4 | 3 | | | 2 | | 3 | | | | | | | | 4 | | 1 | | | |
| Serosa, Fibrosis | | | | | 4 | | | 2 | | | | | | | | | | | | | | 2 | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | 3 | | |
| Tongue | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0728 | 0759 | 0770 | 0759 | 0753 | 0756 | 0777 | 0766 | 0766 | 0777 | 0744 | 0766 | 0755 | 0777 | 0777 | 0755 | 0744 | 0766 | 0727 | 0777 | 0777 | 0766 | 0777 | 0744 | | | 0755 |
| | 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 | 014001 | |
| | 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 | 014002 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 014003 | |
| | 0 | 0 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 4 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 8 | 9 | 014004 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cardiomyopathy | 3 | 1 | 1 | 1 | 1 | 2 | | 2 | | 2 | 2 | | 1 | | 3 | 3 | 1 | 1 | 1 | 3 | 2 | 2 | 1 | | 2 | |
| Metaplasia, Osseous Mineralization | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | X | | | | | | | | | X | | | | | | | | | | | X | | | | | |
| Atrium, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | | |
| Hypertrophy | 2 | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Vacuolization Cytoplasmic | 2 | 3 | 4 | | 2 | 2 | 2 | 4 | 2 | 2 | 2 | | 2 | 3 | 2 | | | 2 | 2 | 2 | 2 | 2 | 2 | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | 2 | | 1 | 2 | | 2 | 3 | 2 | | 2 | | 3 | 1 | | | | 2 | | 2 | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | 2 | | 4 | | 2 | | | | | | | | | | | | | | |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | | 7 | 5 | 7 | 5 | 5 | 6 | 7 | 6 | 6 | 7 | 4 | 6 | 5 | 7 | 7 | 5 | 4 | 6 | 7 | 6 | 7 | 4 | 5 | | | |
| FISCHER 344 RATS-NCTR RATS MALE
0.044 Furan104wk | ANIMAL ID | 2 | 9 | 0 | 9 | 3 | 9 | 2 | 5 | 8 | 2 | 8 | 7 | 5 | 0 | 2 | 4 | 4 | 8 | 2 | 0 | 6 | 3 | 8 | | | |
| | | 8 | 9 | 3 | 6 | 6 | 5 | 9 | 4 | 8 | 8 | 9 | 0 | 6 | 1 | 8 | 9 | 6 | 3 | 8 | 8 | 3 | 8 | 8 | | | |
| | | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 2 | 3 | 4 | 4 | 7 | 8 | 9 | 9 | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 8 | 9 | males (cont...) |
| | | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | | |

Hyperplasia

1

Pituitary Gland

Hemorrhage

Pars Distalis, Angiectasis

Pars Distalis, Cyst

Pars Distalis, Hyperplasia

Pars Distalis, Necrosis

Pars Intermedia, Cyst

Thyroid Gland

Fibrosis

Ultimobranchial Cyst

C-cell, Hyperplasia

Follicle, Cyst

Follicular Cell, Hyperplasia

GENERAL BODY SYSTEM

Peritoneum

Tissue NOS

Inflammation, Suppurative

GENITAL SYSTEM

Epididymis

Degeneration, Cystic

Exfoliated Germ Cell

Fibrosis

* .. 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

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| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|
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| Hypospermia | 3 | 4 | 4 | | | | 3 | | 4 | 4 | | 4 | 4 | | 3 | | | 3 | 2 | | 4 | 4 | | | |
| Epithelium, Degeneration | 2 | 3 | 3 | | | | 3 | 2 | 4 | 4 | | 2 | 3 | | | | | | | | 4 | 4 | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Abscess | | | | | | | 4 | | | | | | | | 4 | | | | | | | | | | |
| Fibrosis | 3 | | | 2 | | 2 | 2 | | 2 | | | 2 | 3 | 2 | | | | 2 | 3 | 2 | | | 3 | | |
| Inflammation, Suppurative | | | | 4 | 4 | 3 | | | | 4 | | | | 4 | | | | | 2 | | 2 | | 4 | | |
| Inflammation, Chronic Active | 4 | 3 | | | | | 2 | | | 4 | | 3 | 3 | | | | 2 | 2 | 3 | | 2 | 4 | 3 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Duct, Ectasia | | | 4 | 2 | | 2 | | | 3 | 4 | 3 | | | 4 | 4 | | | | 2 | 2 | | 3 | 4 | 3 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | 3 | | | | | | | 2 | | | | 3 | | | | | | | | | 3 | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | | 3 | 2 | 3 | 2 | 2 | 2 | | | 3 | 2 | 3 | 2 | 1 | 2 | 2 | | | 2 | | 2 | 3 | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | 2 | | | 2 | 4 | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 2 | | | 2 | | | | | | | | 2 | | | | | 1 | | | 2 | | | 2 | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | 3 | 4 | | | | | 2 | 3 | 2 | | | | 4 | | | | 2 | 2 | | | 3 | 3 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Polyarteritis | | | | | | | | | | | | 2 | | 2 | | | | | | 1 | | 2 | 1 | | |
| Interstitial Cell, Hyperplasia | 1 | | | | | 1 | | | | | 1 | | | | | 2 | 1 | 1 | | 1 | | | 1 | | |

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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | | | |
|-----------------------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|------|------|------|
| | 0728 | 0759 | 0770 | 0759 | 0753 | 0756 | 0772 | 0765 | 0766 | 0778 | 0782 | 0788 | 0790 | 0796 | 0771 | 0778 | 0754 | 0744 | 0768 | 0772 | | | 0773 | 0766 | 0772 | 0778 | 0767 | 0744 |
| 0.044 Furan104wk | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 4 | 4 | 7 | 8 | 9 | 9 | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 8 | 8 | 9 | 1 | 1 |
| | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 4 | 4 | 2 | 2 | 1 | 1 |
| Seminiferous Tubule, Degeneration | 3 | 4 | 4 | | | | 4 | 2 | 4 | 4 | | 4 | 4 | 2 | 3 | | | 4 | 4 | 2 | 4 | 4 | | | | | 3 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | 3 | 3 | 2 | | | | | | | | | | | | | |
| Lymph Node | + | + | + | + | + | | | | | + | | | | | + | + | | | + | + | | | | | | | + |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Axillary, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Mediastinal, Hemorrhage | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Sinus, Dilatation | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | 1 | | | | 3 | | | | | | |
| Pancreatic, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Sinus, Dilatation | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

Experiment Number: 10119 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
Time Report Requested: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|-----------------------|
| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | | 0
7
2
8 | 0
5
9
9 | 0
7
0
3 | 0
5
9
6 | 0
5
9
6 | 0
6
2
5 | 0
7
9
4 | 0
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8 | 0
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9 | 0
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6 | 0
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3 | 0
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8 | 0
7
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0 | 0
6
6
8 | 0
7
2
8 | 0
4
6
8 | | 0
5
3
2 |
| ANIMAL ID | | 0
1
4
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1 | 0
1
4
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2 | 0
1
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9 | 0
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1 | 0
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3 | 0
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3
4 | 0
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1 | | 0
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0
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2 |

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|---|---|---|--|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | | 2 | | 1 | | | 2 | 2 | | | 2 | 1 | 1 | | | | 2 | | | | | |
| Infiltration Cellular, Plasma Cell
Sinus, Dilatation | 2 | 3 | | 1 | 2 | | | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | | 2 | 2 |
| | | 2 | | | | | | | | | | | 1 | | | 4 | 2 | 4 | | 2 | 2 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Hemorrhage | | 4 | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | 2 | | 2 | | | 2 | 2 | | | | | | | | 2 | | | 2 | | 2 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | 4 | 3 | | | 2 | | | | | | | 4 | 4 | | | 2 | | | | | | | |
| Hematopoietic Cell Proliferation | | | | 3 | | | 3 | | | 1 | | | | | | | 2 | 3 | | | | 3 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | | | 2 | | 2 | 2 | | | 2 | | 3 | | | 3 | 3 | | 2 | | | 3 | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | X | | | | X | X | | X | | | X | X | X | | | | X | | X | | | | |

* .. 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
 1-4 .. Lesion qualified as:
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|--|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | |
| | | 7 | 5 | 7 | 5 | 5 | 6 | 7 | 6 | 6 | 7 | 4 | 6 | 5 | 7 | 7 | 5 | 4 | 6 | 7 | 7 | | 6 | 7 | 4 |
| FISCHER 344 RATS-NCTR RATS MALE | | 2 | 9 | 0 | 9 | 3 | 9 | 2 | 5 | 8 | 2 | 8 | 7 | 5 | 0 | 2 | 4 | 4 | 8 | 2 | 0 | 6 | 2 | 3 | 8 |
| | 0.044 Furan104wk | 8 | 9 | 3 | 6 | 6 | 5 | 9 | 4 | 8 | 8 | 9 | 0 | 6 | 1 | 8 | 9 | 6 | 3 | 8 | 8 | 3 | 8 | 2 | 8 |
| | 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 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | | 0 | 0 | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 4 | 4 | 7 | 8 | 9 | 9 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 8 | 9 |
| | | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Dilatation | | | | | | | | 1 | 3 | 2 | | | | | | | | | | 3 | 2 | | 3 | | |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Lobular, Hyperplasia | | | | 4 | | | | | | | | | | | | | | 2 | | | | | 3 | | |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | X | | | | | | | | | | | | | X | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tail, Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone, Femur | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteopetrosis | | | | | | | | | | | | | 4 | | | | | | | | | | | | 4 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | 2 | | | | 4 | 1 | | 4 | | | | 3 | 4 | | | | 4 | | 2 | 2 | | 3 | 3 | |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Brain, Cerebellum | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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
 1-4 .. Lesion qualified as:
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0728 | 0599 | 0703 | 0596 | 0556 | 0677 | 0666 | 0676 | 0668 | 0742 | 0665 | 0758 | 0678 | 0500 | 0724 | 0544 | 0688 | 0728 | 0778 | 0773 | 0668 | 0778 | 0438 | 0528 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 014001 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 014002 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 7 | 7 | 7 | 7 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 014003 | |
| | 0 | 0 | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 4 | 4 | 7 | 8 | 9 | 0 | 0 | 1 | 2 | 2 | 3 | 4 | 4 | 8 | 9 | 014004 | |

Hemorrhage 4
 Metaplasia, Osseous
 Necrosis 4
 Ventricle, Dilatation

Brain, Cerebrum +
 Hemorrhage 2 2
 Mineralization 2
 Ventricle, Dilatation

Peripheral Nerve +
 Spinal Cord, Cervical +
 Spinal Cord, Lumbar +
 Spinal Cord, Thoracic +

RESPIRATORY SYSTEM

Lung +
 Hemorrhage 3
 Infiltration Cellular, Histiocyte 1 3 2 1 3
 Inflammation, Chronic Active
 Necrosis
 Alveolar Epithelium, Hyperplasia
 Bronchiole, Epithelium, Hyperplasia 2
 Nose + A +
 Foreign Body X X X X

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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4
2 | 0
2
2
8
2 | 0
2
2
8
2 | 0
2
2
9
1 |

Inflammation, Suppurative
 Osteopetrosis
 Goblet Cell, Hyperplasia

2 3 1 3 1 2 2
 4

Trachea +

SPECIAL SENSES SYSTEM

Ear

Eye + A +
 Cataract
 Adventitia, Inflammation, Suppurative 4
 Retina, Degeneration

Harderian Gland +
 Foreign Body X
 Infiltration Cellular, Lymphocyte
 Inflammation, Suppurative 4
 Acinus, Degeneration 2 4

Zymbal's Gland

URINARY SYSTEM

Kidney +
 Cyst
 Hydronephrosis 2
 Nephropathy 3 3 3 4 4 2 2 4 2 3 3 4 3 3 3 2 2 4 3 4 3 4 4 1 2
 Polycystic Kidney

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
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| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 078 | 059 | 070 | 059 | 056 | 067 | 066 | 066 | 077 | 066 | 067 | 048 | 066 | 055 | 077 | 075 | 044 | 068 | 072 | 077 | 077 | 066 | 077 | 044 | 058 | | |
| Transitional Epithelium, Hyperplasia | 2 | | | | | | | | 2 | | 2 | 1 | | | | | | | | | | 3 | | 1 | 1 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | 4 | 3 | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | |

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|---|
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| Granuloma | | | | | | | 2 | 1 | | | | | | 2 | 1 | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | 4 | | | | | | | 2 | 2 | | | | | | | 2 | |
| Bile Duct, Biliary Tract, Hyperplasia | 2 | 2 | | | 1 | 1 | | | | | | | 1 | 1 | 1 | 2 | | 1 | 1 | | | 1 | 1 | 2 | 2 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | 2 | 4 | | | | | | | | 4 | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | 2 | | | | | | | | | | | | 2 | | | | | | | | | | | 3 | |
| Periportal, Vacuolization Cytoplasmic | | | | 1 | 2 | | | | | | | | | | | | 2 | | | | 2 | 3 | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | + | | | | | | | + | | | | | | | | | | | | + | + |
| Inflammation, Granulomatous | | | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | 4 | | | | | | | | 4 | | | | | | | | | | | | 4 | 4 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acinar Cell, Hyperplasia | | | | | 3 | 4 | | | | | | | | | | | | | | | | | | | | 2 |

* .. 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
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 Furan
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Date Report Requested: 06/03/2014
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|--|-----------|--------------------|
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| Acinus, Degeneration | 2 | | 2 | | 2 | | 3 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | | | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Stomach, Forestomach | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Inflammation, Chronic Active | 2 | | | | | | 1 | | | | | | | | | | 1 | | 3 | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Epithelium, Hyperplasia | 3 | | | | | | 2 | | | | | | | | | | 2 | | 3 | | | | | | | | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 I .. Insufficient tissue
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
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| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | | 2 | 2 | 2 | 3 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | | 3 | 1 | 4 | 1 | 1 | 2 | 2 | 2 | 2 |
| Metaplasia, Osseous Mineralization | | | | | | | | | | 4 | | | | | | | 4 | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Thrombosis | X | X | | | | | | | X | | | | | | X | | X | | | | | | | |
| Atrium, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | 4 | | | | | | | | | | | 3 | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | X | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 3 | | | | | 3 | | 4 | | | 2 | | 2 | 4 | | | 2 | 2 | 2 | 2 | 3 | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 | 3 | | | 2 | 2 | | 1 | | | | | 2 | | | | 2 | 2 | 1 | | | 2 | 1 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
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Hyperplasia

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Pituitary Gland

Hemorrhage

Pars Distalis, Angiectasis

Pars Distalis, Cyst

Pars Distalis, Hyperplasia

Pars Distalis, Necrosis

Pars Intermedia, Cyst

Thyroid Gland

Fibrosis

Ultimobranchial Cyst

C-cell, Hyperplasia

Follicle, Cyst

Follicular Cell, Hyperplasia

GENERAL BODY SYSTEM

Peritoneum

Tissue NOS

Inflammation, Suppurative

GENITAL SYSTEM

Epididymis

Degeneration, Cystic

Exfoliated Germ Cell

Fibrosis

* .. 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

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MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
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| Hypospermia | | 4 | | 2 | 2 | 4 | | 4 | 4 | | 4 | 3 | 4 | | 2 | 4 | 4 | 4 | | | | 3 | | | | |
| Epithelium, Degeneration | | 4 | | | | 3 | | 3 | 4 | | 3 | | 2 | | | 2 | 3 | 4 | | | | 2 | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | 3 | 3 | | | 3 | 3 | | 2 | 3 | 2 | 3 | 2 | 2 | | | | 2 | | 3 | | 2 | 4 | 2 | 2 | | |
| Inflammation, Suppurative | | | 4 | 4 | | | | 3 | 2 | 3 | | 2 | 4 | | | | | | | | 4 | | | 3 | | |
| Inflammation, Chronic Active | 3 | 2 | | | 2 | 3 | 4 | | | | 3 | | | 4 | 4 | 2 | 2 | 4 | 2 | 4 | 2 | | 1 | 3 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Duct, Ectasia | 3 | 3 | | | 3 | | 3 | 4 | | 4 | | | 3 | | | | 4 | | 2 | 3 | | 4 | | 3 | 3 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | 3 | | 2 | | | | 4 | | | 3 | | | | | 3 | 3 | | 2 | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | | | | | 3 | | 2 | 3 | 2 | | 2 | 2 | 2 | 3 | | | | 3 | 1 | 3 | 2 | 2 | 2 | 1 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | 1 | 2 | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 1 | | 2 | | 1 | 2 | | | | | | 1 | | | | 2 | 2 | | | | | | | 1 | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | 2 | | 2 | | 3 | | 4 | 3 | | 3 | | | | | 3 | 4 | | 2 | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Polyarteritis | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | 1 | | 1 | | 2 | 2 | | 1 | | 1 | 1 | 1 | 1 | | | | 2 | | 1 | 2 | 1 | 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-----------------------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0597 | 0717 | 0514 | 0625 | 0768 | 0478 | 0778 | 0478 | 0759 | 0779 | 0679 | 0778 | 0778 | 0679 | 0778 | 0778 | 0679 | 0655 | 0553 | 0661 | 0788 | 0543 | 0653 | 0563 | | |
| 0.044 Furan104wk | 0222 | 0233 | 0033 | 0088 | 0088 | 0088 | 0088 | 0088 | 0088 | 0033 | 0044 | 0055 | 0066 | 0077 | 0088 | 0099 | 0000 | 0011 | 0022 | 0011 | 0022 | 0033 | 0022 | 0033 | | |
| Seminiferous Tubule, Degeneration | 2 | 4 | 3 | 2 | 4 | 4 | | 4 | 4 | | 4 | 4 | 4 | 1 | 3 | 4 | 4 | 4 | | | 4 | | 2 | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Myeloid Cell, Hyperplasia | | | | 4 | 1 | | 3 | | 2 | | | | | | 1 | | | | 4 | | 2 | 3 | |
| Lymph Node | + | + | + | | | | | | + | + | | | | | | | | | | | | + | |
| Hyperplasia, Lymphoid | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Axillary, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Congestion | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Furan

CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | 1 | 1 | | 2 | | | | | | | | | 1 | | | | | | | | | 3 | | | |
| Infiltration Cellular, Plasma Cell | 2 | | | | 2 | | | | 1 | 2 | | | | 2 | 1 | | | | | 2 | | 2 | 3 | | | |
| Sinus, Dilatation | 2 | 2 | | | | | | | | | | | | 2 | | | | | | | | 4 | 4 | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 1 | 2 | 2 | | | | | 1 | 2 | | | | | 1 | | 1 | 2 | | | | 2 | | 1 | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | 4 | | 3 | 3 | 2 | 4 | | 1 | | | 1 | | 3 | 2 | 3 | 3 | 4 | 2 | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Fibrosis | 3 | | | | | | 2 | | 3 | 2 | 2 | | | | 3 | 3 | | | | 3 | 2 | 4 | 4 | 1 | | 2 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | | | | | | | | | | X | | | | X | X | | X | | | X | X | X | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|
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| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2292 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2292 | |
| | 2 | 3 | 3 | 3 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2292 | |
| | 9 | 0 | 1 | 1 | 5 | 6 | 6 | 7 | 8 | 8 | 3 | 4 | 5 | 6 | 6 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 2292 | |
| | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2292 | |

Inflammation, Granulomatous
 Inflammation, Chronic Active
 Alveolus, Dilatation 2 3 2 2
 Epithelium, Hyperplasia
 Lobular, Hyperplasia 3 2

Skin +
 Abscess
 Cyst Epithelial Inclusion X
 Fibrosis
 Inflammation, Granulomatous 1
 Epithelium, Hyperplasia
 Tail, Cyst Epithelial Inclusion

MUSCULOSKELETAL SYSTEM

Bone, Femur +
 Fibrous Osteodystrophy
 Osteopetrosis
 Skeletal Muscle +
 Necrosis

NERVOUS SYSTEM

Brain, Brain Stem +
 Compression 4 3 4 4 4
 Hemorrhage
 Brain, Cerebellum +

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

Experiment Number: 10119 - 01
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 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | |
|--|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|-----------------------|-----------------------|
| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | | 0
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|-----------------------|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | 2 | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum | + | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | 2 | | | | | 3 | | | | | 3 | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|--|--|--|-----|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | 1 1 | | | | | | | | 1 1 1 | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bronchiole, Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |

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 + .. Tissue examined microscopically
 X .. Lesion present
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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Inflammation, Suppurative
 Osteopetrosis
 Goblet Cell, Hyperplasia

2
 1
 2
 1

Trachea +

SPECIAL SENSES SYSTEM

Ear +

Eye + + + + + + + + + A + + + + + + + + + + + + + +

Cataract
 Adventitia, Inflammation, Suppurative
 Retina, Degeneration

Harderian Gland +

Foreign Body
 Infiltration Cellular, Lymphocyte
 Inflammation, Suppurative
 Acinus, Degeneration

Zymbal's Gland +

URINARY SYSTEM

Kidney +

Cyst
 Hydronephrosis 1
 Nephropathy 2 3 2 2 4 4 2 4 4 1 2 3 4 2 4 4 3 4 3 3 3 4 4 1 3
 Polycystic Kidney

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|-----------|--------------------|---|--|
| | 05797 | 07777 | 05114 | 06225 | 07228 | 06558 | 04788 | 07788 | 07788 | 04788 | 05791 | 07799 | 06799 | 07788 | 07788 | 06788 | 05788 | 05788 | 06563 | 05563 | 06681 | 07788 | 05543 | 06635 | | | | | |
| | 02222 | 02333 | 00111 | 00112 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 00222 | 2 | 1 | 1 | 1 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | | 100 |
| Intestine Large, Cecum
Mucosa, Hyperplasia | + + + + + + + + + + A + A + + + + + + A + + + A + + | | | | | | | | | | | | | | | | | | | | | | | | 91
1 2.0 |
| Intestine Large, Colon
Mucosa, Hyperplasia | + + + + + + + + + + + + A + + + + + A + + + A + + | | | | | | | | | | | | | | | | | | | | | | | | 94
1 2.0 |
| Intestine Large, Rectum | + + + + + + + + + + A + A + + + + + A + + + A + + | | | | | | | | | | | | | | | | | | | | | | | | 94 |
| Intestine Small, Duodenum
Mucosa, Hyperplasia | + + + + + + + + + + A + A + + + + + A + + + A + + | | | | | | | | | | | | | | | | | | | | | | | | 94
3 2.7 |
| Intestine Small, Ileum
Mucosa, Hyperplasia | + + + + + + + + + + A + A + + + + + A + + + A + + | | | | | | | | | | | | | | | | | | | | | | | | 91
1 2.0 |
| Intestine Small, Jejunum
Inflammation, Chronic Active
Mucosa, Hyperplasia
Serosa, Hemorrhage
Serosa, Necrosis | + + + + + + + + + + A + A + + + + + A + + + A + + | | | | | | | | | | | | | | | | | | | | | | | | 91
1 3.0
2 3.0
1 3.0
1 4.0 |
| Liver
Basophilic Focus
Clear Cell Focus
Deformity
Degeneration, Cystic
Fibrosis | + X + + X
X
X
1 | | | | | | | | | | | | | | | | | | | | | | | | 99
19
2
1
11 1.7
1 2.0 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|
| | 0591 | 0668 | 0535 | 0690 | 0668 | 0547 | 0631 | 0566 | 0697 | 0593 | 0556 | 0728 | 0675 | 0748 | 0415 | 0662 | 0566 | 0664 | 0668 | 0722 | | 0729 | 0666 | 0778 | 0628 | 0678 |
| ANIMAL ID | 036332 | 036644 | 036451 | 036652 | 036662 | 036882 | 036888 | 036888 | 036888 | 036888 | 036444 | 036444 | 036444 | 036444 | 036444 | 036444 | 036444 | 036444 | 036444 | 036444 | 036444 | 036444 | 036444 | 036444 | 036444 | |
| Granuloma | | | | | | 2 | 2 | 2 | | | 1 | | | | | | | | | | | | | | | 18 1.4 |
| Hemorrhage | | | | | | | | | | | | | | | | | | 4 | | | | | | | | 2 4.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | 4 | | | | | | | | | 1 4.0 |
| Mixed Cell Focus | | | | | | | | | X | | | | | | | | | | | | X | | | | | 6 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 4 2.0 |
| Thrombosis | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | 3 | | | | | | | | | 2 | | | | | 14 2.1 |
| Bile Duct, Biliary Tract, Hyperplasia | 2 | | | | 1 | | | 1 | | 1 | 1 | | | 2 | | 2 | 2 | | | | 2 | | 1 | 1 | | 59 1.5 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Centrilobular, Hepatocyte, Degeneration | | 2 | | | | | | | | | | | 3 | | | | | | | | | | 4 | | | 18 2.7 |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hepatocyte, Necrosis | | | | | | | | | | | 1 | | 2 | | | | | | | | | | | | | 8 2.1 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 10 2.0 |
| Periportal, Vacuolization Cytoplasmic | | | | | 1 | 1 | 1 | | | | | | | | | | | | | 2 | | | | | | 18 1.8 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 25 |
| Cyst | | + | | | | | | | | | + | + | | + | + | | | | | | | | | | | 1 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Fat, Necrosis | | 4 | | | | | | | | | 4 | 4 | | 4 | 3 | | | 4 | 4 | | | | | | | 24 3.8 |
| Oral Mucosa | | | | | | | | | + | | | | | | | | | | | | | | | | | 3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | 99 |
| Polyarteritis | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 2.7 |
| Acinar Cell, Hyperplasia | | | | | 3 | | | | | 2 | 3 | 2 | | | | | | | | | 3 | | 4 | | | 17 2.9 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--------|
| | 0591 | 0688 | 0535 | 0690 | 0668 | 0547 | 0631 | 0656 | 0599 | 0699 | 0583 | 0728 | 0665 | 0728 | 0416 | 0669 | 0664 | 0668 | 0722 | 0729 | | 0666 | 0778 | 0678 |
| ANIMAL ID | 03632 | 03641 | 03644 | 03655 | 03662 | 03682 | 03688 | 03688 | 03688 | 03688 | 03688 | 03644 | 03644 | 03644 | 03644 | 03644 | 03644 | 03655 | 03655 | 03655 | 03655 | 03634 | 03647 | |
| Acinus, Degeneration | | | | | | | 3 | | | | | | | 1 | 4 | | | | 2 | | | | | 21 2.1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 |
| Edema | | | 1 | | | | 1 | | | | | 3 | | | | | | | | | | | | 13 2.6 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Chronic Active | | | | | | | 1 | | | | | 3 | | | | | | | | 2 | | | | 18 2.6 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Ulcer | | | | | | | 2 | | | | | | | | | | | | | | 4 | | | 11 3.5 |
| Epithelium, Hyperplasia | | | 2 | | | | 1 | | | | | 3 | | | | | | 2 | | | 3 | | | 22 2.6 |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | A | + | + | + | + | 96 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 5 2.6 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0591 | 0668 | 0535 | 0690 | 0668 | 0547 | 0661 | 0565 | 0699 | 0699 | 0583 | 0628 | 0765 | 0678 | 0416 | 0566 | 0647 | 0668 | 0722 | 0722 | | 0666 | 0776 | 0678 |
| ANIMAL ID | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 | 03632 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 |
| Cardiomyopathy | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | + | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 4 |
| Metaplasia, Osseous Mineralization | | | | | | | | | | | | | | | 1 | | | | | | | | | | 4 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thrombosis | | X | | | | | | | | | | X | | | | X | | | | | X | | | | 17 |
| Atrium, Dilatation | | | | | | | | 3 | | | | | | | | | | | | | | | | | 1 |
| Pericardium, Fibrosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | 4 | | | | | | | | | 3 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Cyst | | | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | | 5 |
| Hypertrophy | | | | | | | | | | 3 | | | | | | | | | | | | 2 | | | 4 |
| Vacuolization Cytoplasmic | 2 | 4 | 2 | | 2 | 2 | 2 | | | 3 | | 3 | 2 | | 2 | 2 | 3 | 2 | 2 | | 2 | | 2 | | 69 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 |
| Fibrosis | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 |
| Hyperplasia | | 2 | 1 | | | | 2 | | | | | | 1 | | | | 1 | | 2 | 2 | 1 | 4 | 2 | 2 | 45 |
| Mineralization | | | | | | | | | | | | 4 | | | | | | | | | | | | | 1 |
| Thrombosis | | | | | | | | | | | | X | | | | | | | | | | | | | 3 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 98 |

* .. 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
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 1-4 .. Lesion qualified as:
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 Furan
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Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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|------------------------------|---|---|--|---|---|--|---|---|---|--|---|--|---|---|--|---|--|---|--|---|---|-----|-----|---|---|---|----|-----|-----|
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | 2 | 11 | 2.0 | | | | | | |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | + | 100 | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | 4 | 4 | 4.0 | | | | | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | | | |
| Pars Distalis, Cyst | X | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1 | 3 | 2 | 3 | 28 | 2.5 | |
| Pars Distalis, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Thyroid Gland | + | | | | | | | | | | | | | | | | | | | | + | 99 | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | | | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| C-cell, Hyperplasia | 1 | 1 | | 1 | 1 | | 1 | 1 | 3 | | 1 | | 1 | 2 | | 1 | | 1 | | 1 | 3 | | | | | | | 53 | 1.5 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-----|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Epididymis | + | | | | | | | | | | | | | | | | | | | | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 98 | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Exfoliated Germ Cell | 2 | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | 21 | 2.1 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.3 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
| | 0591 | 0688 | 0535 | 0690 | 0668 | 0547 | 0631 | 0566 | 0699 | 0697 | 0593 | 0556 | 0728 | 0665 | 0778 | 0415 | 0662 | 0569 | 0664 | 0667 | | 0668 | 0722 | 0729 | 0666 | 0728 |
| ANIMAL ID | 03632 | 03641 | 03644 | 03655 | 03656 | 03662 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 |
| Hypospermia | | 3 | | 4 | | | | | | 2 | | | 4 | 4 | 4 | | | 4 | | 4 | | 4 | | 4 | | 4 |
| Epithelium, Degeneration | | 3 | | 2 | | | | | | 2 | | | 3 | 4 | 2 | | | 3 | | | | 3 | 2 | 2 | | |
| Preputial Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 |
| Abscess | | | | | | 4 | | | | | | | | 4 | | | | | | | | | | 4 | | 7 |
| Fibrosis | | 2 | 2 | 2 | 2 | | | | | | | 3 | | | | | 3 | 2 | 3 | | 2 | 2 | 4 | 2 | | 49 |
| Inflammation, Suppurative | | | 2 | | 4 | | | | 4 | | 2 | | 4 | 4 | | | 2 | | 3 | | 2 | | 4 | | | 38 |
| Inflammation, Chronic Active | | 3 | | 2 | | 3 | | 3 | | 3 | | 2 | | | | 2 | | 3 | | 2 | | 4 | | 1 | | 49 |
| Necrosis | | | | | | | | | | | | | 4 | | | | | | | | | | | | | 1 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Duct, Ectasia | | | 2 | | 4 | | 4 | | | | 3 | | 2 | 4 | | | 4 | 3 | | 3 | | 4 | | 4 | | 49 |
| Prostate | | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 98 |
| Atrophy | | | | | | | | | | | | | 3 | | | | | | | | | | | | | 15 |
| Degeneration, Cystic | | | | | | | | | | | | 3 | | | | | | | | | | | | | | 2 |
| Fibrosis | | | | | | | | | | | | | 3 | | | | | | | | | | | | | 2 |
| Inflammation, Suppurative | | 2 | 3 | 2 | 1 | 2 | 3 | 2 | | 2 | 3 | 2 | 4 | | 2 | | 2 | 4 | 2 | 4 | | 2 | 3 | 3 | 1 | 74 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | 3 | | | | 1 | | 9 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epithelium, Hyperplasia | | | | | | | | | 1 | | | | | | | | | 1 | | | | 1 | | 2 | | 19 |
| Seminal Vesicle | | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | A | + | + | + | + | + | + | 96 |
| Atrophy | | | | | | | | | | | | | 4 | | | | | 4 | | | | 3 | | 3 | | 28 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | 3 | | | | 2 | | 4 |
| Testes | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 98 |
| Polyarteritis | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 14 |
| Interstitial Cell, Hyperplasia | | 1 | 2 | | | 2 | 1 | 1 | 2 | 2 | 2 | 1 | | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | | 49 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|-----------------------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|---|---|-----------|------------|
| | 0591 | 0668 | 0535 | 0696 | 0664 | 0543 | 0699 | 0699 | 0588 | 0722 | 0692 | 0772 | 0676 | 0776 | 0416 | 0664 | 0666 | 0668 | 0772 | 0776 | | 0668 | 0776 | | | | |
| ANIMAL ID | 0363 | 0364 | 0344 | 0345 | 0366 | 0366 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | 0368 | | | | |
| Seminiferous Tubule, Degeneration | 1 | 4 | | 4 | 1 | | | 2 | 3 | 3 | | 4 | 4 | 4 | | 1 | 4 | 1 | | 4 | 2 | 4 | | 4 | 4 | 68 | 3.2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | A | + | + | 95 | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | 2.6 | |
| Lymph Node | + | + | | | | | | + | + | + | A | | | + | + | + | + | + | | | | | | | | 35 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Axillary, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 |
| Lumbar, Sinus, Dilatation | | 4 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | |
| Mediastinal, Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 | 2.0 | |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.0 |
| Pancreatic, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | 2 | 3.5 |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pancreatic, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3.3 |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3.3 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 | |

* .. 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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| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|---|----|-----|-----|
| | 0591 | 0668 | 0535 | 0690 | 0668 | 0547 | 0631 | 0656 | 0599 | 0697 | 0533 | 0556 | 0728 | 0665 | 0748 | 0415 | 0669 | 0664 | 0668 | 0722 | | 0729 | 0666 | 0728 | 0678 | 0681 | | | | |
| ANIMAL ID | 03632 | 03641 | 03644 | 03651 | 03655 | 03662 | 03662 | 03681 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Hyperplasia, Lymphoid | 2 | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 25 | 1.7 |
| Infiltration Cellular, Plasma Cell | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | 1 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | A | + | + | + | A | + | + | 93 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 98 | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | | 3 | | | 4 | 3 | 2 | | | | 3 | | 2 | | | | | | | | | | | | | | | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 98 | | |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 93 | 4.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 95 | | |
| Galactocele | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 Furan
 CAS Number: 110-00-9

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0591 | 0668 | 0535 | 0690 | 0668 | 0547 | 0661 | 0566 | 0699 | 0699 | 0583 | 0629 | 0768 | 0695 | 0728 | 0416 | 0566 | 0664 | 0668 | 0722 | | 0729 | 0666 | 0778 |
| ANIMAL ID | 03632 | 03641 | 03644 | 03651 | 03655 | 03662 | 03682 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 | 03688 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|--|---|---|--|--|---|--|---|--|--|--|--|--|---|--|---|--|---|--|--|---|---|----|-----|-----|
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Alveolus, Dilatation | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 15 | 2.3 |
| Epithelium, Hyperplasia | | | | 2 | 2 | | | | | 2 | | | | | | 2 | | | | | | | | | | 6 | 2.0 |
| Lobular, Hyperplasia | | | | | | | | | | | | | | | | | | 2 | | 3 | | | 2 | 2 | 13 | 2.5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|-----|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | |
| Fibrosis | | | | | | | | | | | | | | | | 4 | | | | | | | | | | 1 | 4.0 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 3 | | | | | 1 | 3.0 |
| Tail, Cyst Epithelial Inclusion | | | | | | | | | | X | | | | | | | | | | | | | | | | 2 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|-----|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.0 |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 | | |
| Compression | 4 | 2 | 4 | | 4 | 4 | | | | | 4 | 4 | | | | 4 | | 2 | 2 | | 4 | 3 | | | | 40 | 3.2 | |
| Hemorrhage | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 | | |

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0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|------|
| | 0591 | 0688 | 0535 | 0690 | 0668 | 0547 | 0631 | 0569 | 0699 | 0598 | 0625 | 0768 | 0572 | 0692 | 0741 | 0656 | 0564 | 0675 | 0668 | 0722 | 0729 | 0666 | 0778 | 0678 | | 0681 |
| ANIMAL ID | 036332 | 036641 | 036642 | 036651 | 036662 | 036681 | 036682 | 036683 | 036684 | 036685 | 036686 | 036687 | 036688 | 036689 | 036690 | 036691 | 036692 | 036693 | 036694 | 036695 | 036696 | 036697 | 036698 | 036699 | 036700 | |
| | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-----|-----|
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|----|-----|
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Ventricle, Dilatation | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 11 | 1.9 |

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| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

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| Spinal Cord, Cervical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
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| Spinal Cord, Lumbar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

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| Spinal Cord, Thoracic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
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RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 | | | |
| Hemorrhage | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | 3 | 3.3 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | 1 | | | | | | | | | 2 | | | | 16 | 1.5 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Bronchiole, Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Nose | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | 96 | | | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|-----|
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| Inflammation, Suppurative | 2 | | | | | | | 2 | | | | | | | 2 | | | | | | | | | | | | | 18 |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Eye | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | A | + | + | + | A | + | + | | 92 | |
| Cataract | | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 3 |
| Adventitia, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.7 |
| Retina, Degeneration | | 3 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.7 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| Nephropathy | 4 | 4 | 4 | 4 | 3 | 4 | 2 | 2 | 4 | 3 | 2 | 4 | | 3 | 2 | 4 | 2 | 4 | 3 | 2 | 3 | 4 | 2 | 3 | 4 | 2 | 3 | |
| Polycystic Kidney | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 98 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4.0 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.044 Furan104wk | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|---|------|------|------|------|-----|
| | 0591 | 0668 | 0035 | 0060 | 0068 | 0067 | 0061 | 0066 | 0067 | 0063 | 0069 | 0069 | 0068 | 0066 | 0068 | 0065 | 0062 | 0066 | 0066 | 0067 | 0067 | 0066 | | | 0067 | 0066 | 0068 | 0068 | |
| Transitional Epithelium, Hyperplasia | 1 | | | | 1 | | | | | | | | | | 3 | | | | | | | | | | | | 2 | 25 | 1.6 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.3 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4 | 2.0 |

* .. 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

1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0729 | 0691 | 0665 | 0331 | 0758 | 0722 | 0669 | 0665 | 0715 | 0661 | 0768 | 0672 | 0677 | 0668 | 0754 | 0554 | 0772 | 0663 | 0666 | 0666 | 0666 | 0776 | 0669 | 0669 | | |
| | 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 | 00242 | |
| | 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 | 00251 | |
| | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 452 | |
| | 9 | 9 | 1 | 8 | 7 | 3 | 9 | 2 | 9 | 5 | 8 | 4 | 2 | 4 | 8 | 8 | 4 | 1 | 3 | 5 | 3 | 7 | 6 | 9 | 7 | 21 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bacterium | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Periesophageal Tissue, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Periesophageal Tissue, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | |
| Anus, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | X | | | X | | | X | | | | | X | | | X | | | | |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
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* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|
| | 0729 | 0729 | 0661 | 0668 | 0337 | 0337 | 0579 | 0579 | 0662 | 0662 | 0665 | 0665 | 0771 | 0771 | 0664 | 0664 | 0778 | 0778 | 0554 | 0554 | | | 0773 | 0666 | 0666 | 0666 | 0666 | 0667 |
| | 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 |
| Clear Cell Focus | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Deformity | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | 2 | | | | | | | | | 3 | 2 | | | | | | 2 | | | 2 | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | 1 | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | 3 | | | | | | | | | | | | | | 4 | 1 | | | 2 | | |
| Bile Duct, Biliary Tract, Hyperplasia | | 1 | 1 | | | | | | 1 | | 1 | | 3 | 1 | 2 | | 2 | | | | | | | | 1 | 2 | 4 | 4 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | 3 | 2 | | | | | | | | | | | | | 3 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | 3 | |
| Periportal, Vacuolization Cytoplasmic | | | | 2 | | | | | | | 2 | | | | | | | | | | | | 2 | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | + | | | | | | + | | | | | | | | | | | + | + | | + | | | | | | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Fat, Necrosis | | 4 | | | | | | | 4 | | | | | | | | | | | | | | 4 | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|------|------|
| | 0729 | 0729 | 0661 | 0668 | 0337 | 0337 | 0575 | 0575 | 0776 | 0776 | 0666 | 0666 | 0777 | 0777 | 0666 | 0666 | 0777 | 0777 | 0554 | 0554 | | | 0776 | 0776 | 0666 | 0666 | 0777 | 0777 | 0666 | 0666 |
| Acinus, Degeneration | 2 | | 2 | | | 2 | | | | | | | | | 2 | | | | 2 | | | 2 | | 2 | | 2 | | 2 | | |
| Salivary Glands
Infiltration Cellular, Lymphocyte
Acinus, Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach
Edema
Inflammation, Chronic Active
Perforation
Ulcer
Epithelium, Hyperplasia
Serosa, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | 4 | | | | 3 | | | | | | | | | 4 | | | | | | | | | | | |
| | | | | | | 4 | 1 | | | 4 | | | | | | | | | 3 | | | | | | 2 | | 1 | | | |
| | | | | | | 4 | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 3 | 1 | | | | 3 | | | | 1 | | | | | 4 | | | | 3 | 3 | |
| | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
Edema
Inflammation, Chronic Active
Mineralization
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Tongue
Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart
Cardiomyopathy
Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 2 | | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | |

* .. 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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 2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|------|------|
| | 0729 | 0729 | 0661 | 0668 | 0337 | 0337 | 0578 | 0578 | 0762 | 0762 | 0665 | 0665 | 0771 | 0771 | 0668 | 0668 | 0775 | 0775 | 0243 | 0243 | | | 0664 | 0664 | 0666 | 0666 | 0709 |
| | 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 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 5 | 5 | 6 | 7 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 4 | 1 | 2 | 1 | 2 | 1 | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 1 |
| | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |

Inflammation, Chronic Active
 Mineralization 2
 Thrombosis X X
 Pericardium, Hemorrhage
 Pericardium, Inflammation, Suppurative
 Pericardium, Inflammation, Chronic Active
 Pericardium, Necrosis
 Ventricle, Dilatation 3

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 2 | 2 | 4 | | 2 | | | 4 | | 3 | 2 | | 2 | 3 | | | | | 1 | 1 | | 2 | 2 | 3 | | | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 4 | | 3 | 3 | | | | | 2 | 4 | | 3 | | | | | | | | | | | | | | | 4 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | 2 | 2 | | | 1 | | | 3 | | | | | | | | | | | | | | | | 2 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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 Species/Strain: RATS/F 344/NCTR

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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0729 | 0729 | 0691 | 0665 | 0637 | 0675 | 0657 | 0676 | 0666 | 0676 | 0666 | 0677 | 0666 | 0677 | 0666 | 0677 | 0666 | 0677 | 0666 | 0677 | 0666 | 0677 | 0666 | 0677 | | | 0666 |
| | 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 | 002242 | |

Pars Distalis, Angiectasis 2
 Pars Distalis, Cyst X
 Pars Distalis, Hyperplasia 3 2 2 2
 Pars Nervosa, Cyst 2

Thyroid Gland +
 Cyst
 C-cell, Hyperplasia 1 1 2 1 1 2 2 1 1
 Follicle, Cyst X
 Follicular Cell, Hyperplasia X

GENERAL BODY SYSTEM

Tissue NOS +

GENITAL SYSTEM

Epididymis +
 Exfoliated Germ Cell 3 3 2 2 3
 Hypospermia 3 4 3 4 4 4 4 3 4 4 4
 Epithelium, Degeneration 2 3 3 3
 Lumen, Dilatation 3
 Preputial Gland +
 Abscess 4 4
 Fibrosis 3 2 3 2 2 3 2 2 3 3 3
 Hyperkeratosis 4 4
 Inflammation, Suppurative 2 4 2 4 4
 Inflammation, Chronic Active 1 3 2 2 2 2 1 2 3 2 2 2 2
 Necrosis

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

Experiment Number: 10119 - 01
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 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | | |
|---|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|------|------|
| | 0729 | 0729 | 0691 | 0658 | 0373 | 0751 | 0578 | 0762 | 0669 | 0665 | 0771 | 0669 | 0771 | 0668 | 0772 | 0584 | 0551 | 0773 | 0665 | 0666 | | | 0666 | 0666 | 0779 | 0669 | 0669 |
| 0.092 Furan104wk | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0024 | | |
| Ulcer Duct, Ectasia Epithelium, Hyperplasia | | 3 | 2 | 4 | | 4 | | | | | 3 | 4 | | 2 | | 4 | 4 | | | 4 | 4 | | | 3 | | | |
| Prostate Atrophy Degeneration, Cystic Fibrosis Inflammation, Suppurative Inflammation, Chronic Active Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Seminal Vesicle Atrophy Inflammation, Chronic Active Lumen, Dilatation Serosa, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | | |
| Testes Mineralization Polyarteritis Interstitial Cell, Hyperplasia Seminiferous Tubule, Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Bone Marrow Fibrosis Hypocellularity Myeloid Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | 2 | | 4 | | | | | | | | | | | | | | 2 | | |

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 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| FISCHER 344 RATS-NCTR RATS MALE
0.092 Furan104wk | 7 | 7 | 6 | 6 | 3 | 7 | 5 | 7 | 6 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 5 | 5 | 7 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | |
| | 2 | 2 | 9 | 5 | 3 | 1 | 8 | 2 | 1 | 5 | 1 | 9 | 1 | 8 | 2 | 2 | 0 | 4 | 2 | 9 | 4 | 6 | 6 | 0 | 9 | 9 | |
| | 9 | 9 | 1 | 8 | 7 | 3 | 9 | 2 | 9 | 5 | 8 | 4 | 2 | 4 | 8 | 8 | 4 | 1 | 3 | 5 | 3 | 7 | 6 | 9 | 7 | 7 | |
| | 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 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | |
| | 4 | 5 | 5 | 6 | 7 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 4 | 4 | 5 | 5 | 6 | 7 | 0 | 0 | 1 | 1 | 1 | 3 | 8 | | |
| | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | | |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node | | | | | | | | M | + | | + | + | + | | | | | | | | + | + | + | + | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Axillary, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Lumbar, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Bacterium | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | 1 | | | | | | | 4 | 2 | | 2 | | | 2 | 1 | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | 2 | 2 | | | | | | 4 | 2 | | | | | 2 | 2 | | | 2 | 3 | | | | | 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|------------------|
| | 0
7
2
9 | 0
7
2
9 | 0
6
9
1 | 0
6
5
8 | 0
3
3
7 | 0
7
1
3 | 0
5
8
9 | 0
7
2
2 | 0
6
1
9 | 0
6
5
5 | 0
7
1
8 | 0
6
6
4 | 0
7
1
2 | 0
6
8
4 | 0
7
2
8 | 0
5
0
4 | 0
5
4
1 | 0
7
2
3 | 0
6
9
5 | 0
6
4
3 | | | 0
6
6
7 | 0
6
6
6 | 0
7
0
9 | 0
6
9
7 |
| Sinus, Dilatation | 4 | | | | | | | | 2 | | | | 2 | | | | 3 | | | | | | | | | |
| Lymph Node, Mesenteric Hemorrhage | + + + + + + + + + + + + + A + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell | 2 | | | | | | 3 | | | | 2 | | | | 2 | | | | 2 | | | | | | | |
| Inflammation, Granulomatous Pigmentation | | | | | | | | | | | | | | | | | | | | | 2 3 | | 3 | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Developmental Malformation Fibrosis | | | | | | | | | 4 | | | | 3 | | | | 2 | | | | 2 3 | | | | | |
| Hematopoietic Cell Proliferation | 2 | | 2 | | 2 | | 3 | | 3 | | 1 | | | | | | 3 | | | | 2 | | | | | |
| Hyperplasia, Lymphoid Necrosis | 2 | | | | | | 2 | | 2 | | | | | | 4 | | | | | | | | | | | |
| Pigmentation | | | 2 | | 2 | | 3 | | 3 | | 2 | | | | | | 4 | | 4 | | 3 | | | | | |
| Thymus | + + + + + + + + + + + M + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy Cyst | 4 | | 4 | | 4 | | 3 | | 4 | | 4 | | 3 | | | | | | 4 | | 4 | | 4 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adventitia, Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adventitia, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|---------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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1 | 0
1
4
8
1 |

Galactocele X
 Inflammation, Granulomatous
 Inflammation, Chronic
 Inflammation, Chronic Active
 Alveolus, Dilatation 3 3 4 2 2
 Epithelium, Hyperplasia 2 1
 Lobular, Hyperplasia 2 3 3

Skin +
 Cyst Epithelial Inclusion
 Fibrosis
 Inflammation, Chronic Active

MUSCULOSKELETAL SYSTEM

Bone, Femur +
 Fibrosis
 Fibrous Osteodystrophy
 Osteopetrosis
 Skeletal Muscle +

NERVOUS SYSTEM

Brain, Brain Stem +
 Compression 4 4 2 4 2 2 4 3 2 3 3 1
 Hemorrhage 3
 Brain, Cerebellum +
 Hemorrhage

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------------|------|
| | 0729 | 0729 | 0691 | 0665 | 0637 | 0607 | 0575 | 0547 | 0516 | 0486 | 0456 | 0426 | 0396 | 0366 | 0336 | 0306 | 0276 | 0246 | 0216 | 0186 | 0156 | 0126 | 0096 | 0066 | | | 0036 |
| | 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 | 002242 | |
| | 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 | 000000 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 222222 | |
| | 4 | 5 | 5 | 6 | 7 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 4 | 4 | 5 | 5 | 6 | 7 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 455673344556700111222 | |
| | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 212111211211211211211 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain, Cerebrum Hemorrhage Ventricle, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4 | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Spinal Cord, Cervical Hemorrhage Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 3
2 |
| Spinal Cord, Lumbar Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Spinal Cord, Thoracic Hemorrhage Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 3
2 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Bacterium | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Histiocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1 1 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 2 4 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|-----------------|
| | 0729 | 0729 | 0661 | 0668 | 0337 | 0331 | 0578 | 0572 | 0076 | 0066 | 0675 | 0661 | 0779 | 0667 | 0778 | 0772 | 0504 | 0554 | 0722 | 0669 | 0664 | 0666 | 0660 | 0709 | | | 0669 |
| 0.092 Furan104wk | 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 | 002242 | males (cont...) |

Polyarteritis
 Alveolar Epithelium, Hyperplasia
 Mediastinum, Necrosis
 Pleura, Bacterium
 Pleura, Foreign Body
 Pleura, Hemorrhage
 Pleura, Infiltration Cellular, Polymorphonuclear
 Pleura, Inflammation, Suppurative
 Pleura, Inflammation, Chronic
 Pleura, Necrosis

2

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | X | | | X | |
| Inflammation, Suppurative | 1 | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retinal Detachment | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|
| | 0729 | 0729 | 0661 | 0668 | 0337 | 0337 | 0579 | 0579 | 0762 | 0762 | 0665 | 0665 | 0771 | 0771 | 0666 | 0666 | 0775 | 0775 | 0667 | 0667 | | | 0666 | 0666 | 0770 | 0770 | 0667 |
| | 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 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 5 | 5 | 6 | 7 | 3 | 3 | 4 | 4 | 5 | 6 | 4 | 4 | 5 | 6 | 4 | 5 | 6 | 7 | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 8 |
| | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |

Infiltration Cellular, Lymphocyte
 Acinus, Degeneration
 Acinus, Hyperplasia

1

Zymbal's Gland

+

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | 1 | | | | | | | 1 | | | | | | | | | | |
| Nephropathy | 4 | 3 | 4 | 4 | 2 | 2 | 4 | 4 | 3 | 4 | 2 | 2 | 3 | 3 | 3 | 4 | 2 | 2 | 4 | 4 | 2 | 3 | 4 | 4 | 3 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | 1 | | 1 | 2 | | | 3 | 1 | | | | | | 1 | | | 2 | | | 1 | | | | 1 | | | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | 4 | | | | | | | | | 4 | | | | | | | 4 | | | | | | | |
| Serosa, Inflammation, Chronic Active | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|-----------|-----------------|
| | 0729 | 0658 | 0728 | 0728 | 0518 | 0553 | 0667 | 0637 | 0778 | 0549 | 0486 | 0728 | 0588 | 0758 | 0664 | 0571 | 0559 | 0641 | 0671 | 0646 | 0612 | 0624 | 0665 | | | |
| | 0149 | 0142 | 0155 | 0155 | 0166 | 0166 | 0166 | 0166 | 0169 | 0196 | 0236 | 0233 | 0233 | 0238 | 0233 | 0236 | 0233 | 0244 | 0244 | 0255 | 0266 | 0266 | 0281 | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bacterium | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | |
| Periesophageal Tissue, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Periesophageal Tissue, Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Large, Colon | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Anus, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Small, Jejunum | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | |
| Cholangiofibrosis | | | | | X | | | | | | | | | X | X | | | | | | X | | |

* .. 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

1-4 .. Lesion qualified as:
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 Furan
 CAS Number: 110-00-9

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|--------------------|
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4 | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | 1 | | 2 | | 1 | | | 2 | 1 | | 1 | 1 | | | | | | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Vacuolization Cytoplasmic | 2 | 2 | | | | | | | | | | | | | | 2 | | 2 | | | | | | | | |
| Bile Duct, Biliary Tract, Hyperplasia | 2 | 1 | 1 | 1 | | 1 | 1 | | 2 | | | 2 | 1 | 1 | | 2 | | 1 | 2 | 1 | | 1 | 2 | 1 | 2 | |
| Capsule, Fibrosis | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | 2 | | | | | | 1 | | | | 2 | | | | | | | | | 1 | |
| Hepatocyte, Necrosis | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | 1 | | 2 | | | | | | | 2 | |
| Periportal, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Mesentery | + | + | | + | | | | | + | + | + | | | | | | | | | + | + | + | | + | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 3 | 3 | | 4 | | | | | 4 | 4 | 4 | | | | | | | | 4 | 4 | | | | 4 | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | 2 | 2 | | | | | | 2 | 3 | 2 | | | | | | | 4 | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0656 | 0728 | 0728 | 0518 | 0553 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | | |
| Acinus, Degeneration | 2 | | | 1 | | | | | | | 3 | | | | | | | | | | | 2 | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | A | + | + | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 3 | 2 | 2 | 2 | | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | | 2 | 3 | 3 | 2 | 2 | 3 | 2 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|
| | 0729 | 0656 | 0728 | 0728 | 0518 | 0553 | 0665 | 0637 | 0758 | 0549 | 0486 | 0728 | 0578 | 0728 | 0563 | 0564 | 0717 | 0551 | 0549 | 0671 | | | 0646 | 0662 | 0664 |
| | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 9 |
| | 9 | 9 | 0 | 1 | 6 | 7 | 7 | 8 | 9 | 9 | 6 | 6 | 7 | 8 | 9 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 8 | 8 |
| | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 |

Inflammation, Chronic Active
 Mineralization
 Thrombosis
 Pericardium, Hemorrhage
 Pericardium, Inflammation, Suppurative
 Pericardium, Inflammation, Chronic Active
 Pericardium, Necrosis
 Ventricle, Dilatation

X

X

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | X | | X | | | | | | | | | X | X | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 2 | 2 | 3 | | | 2 | 1 | 2 | 2 | 2 | | 2 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | | 3 | 2 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 1 | | | | | 1 | 4 | 1 | | | | | 2 | | | 2 | | | | | | | | 2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | 2 | | 1 | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | 2 | | | | | | | | | | | | | | | | | | | | 2 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | 4 | | | | | | | | | | | | | | | 4 | | 4 | | |

* .. 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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Experiment Number: 10119 - 01
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0729 | 0656 | 0772 | 0772 | 0518 | 0553 | 0665 | 0665 | 0337 | 0372 | 0548 | 0548 | 0728 | 0754 | 0772 | 0772 | 0568 | 0568 | 0717 | 0754 | 0554 | 0667 | 0667 | 0661 | | | 0662 |
| | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | |
| | 9 | 9 | 0 | 1 | 6 | 7 | 7 | 8 | 9 | 9 | 6 | 7 | 8 | 9 | 3 | 3 | 4 | 4 | 4 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | |
| | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | |

Pars Distalis, Angiectasis
 Pars Distalis, Cyst
 Pars Distalis, Hyperplasia
 Pars Nervosa, Cyst

X
 1 3 1 2 3 2 1

Thyroid Gland
 Cyst
 C-cell, Hyperplasia
 Follicle, Cyst
 Follicular Cell, Hyperplasia

+
 1 2 2 1 1 1 1 1 2 1

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Epididymis
 Exfoliated Germ Cell
 Hypospermia
 Epithelium, Degeneration
 Lumen, Dilatation

+
 2 2 2 3 3 2 4 3 4 3 2 3 2 2 2 2 3 3 1

Preputial Gland
 Abscess
 Fibrosis
 Hyperkeratosis
 Inflammation, Suppurative
 Inflammation, Chronic Active
 Necrosis

+
 4 4 3 2 2 3 4 2 4 4 3 4 4 4 4 4

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|------|
| | 0729 | 0656 | 0778 | 0778 | 0518 | 0553 | 0667 | 0637 | 0778 | 0759 | 0448 | 0728 | 0758 | 0728 | 0578 | 0663 | 0564 | 0711 | 0559 | 0671 | | | 0661 | 0641 | 0662 | 0662 | 0612 | 0662 | 0699 |
| Ulcer | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Ectasia | | | 4 | 4 | | 4 | 3 | | 2 | | | 2 | | 4 | | | | 4 | | 4 | | 2 | 3 | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | 2 | 3 | 2 | | | | | | | | | | 3 | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 1 | 2 | 2 | 2 | 3 | 3 | 3 | | 2 | 1 | | | | | | | | 4 | 2 | | 4 | 1 | | | 2 | 1 | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | 2 | 2 | 1 | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | 1 | | 2 | | | | | 1 | | 2 | | | | 2 | | 1 | | | | | | | | 2 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | 3 | 3 | 2 | | | | | | | | | 3 | 3 | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | 3 | | | 2 | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | 2 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | 1 | 2 | 2 | 2 | 1 | 1 | | | 2 | | | 2 | | | 1 | | 2 | | | 2 | | | 1 | | 2 | | | | |
| Seminiferous Tubule, Degeneration | 3 | 2 | 4 | 2 | | 2 | | | 2 | 2 | | 4 | 3 | 4 | 3 | 4 | 3 | 1 | 4 | | 4 | 2 | | 2 | 2 | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | 3 | | | | | | 2 | | | | 3 | | 3 | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|--|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|-------------------------|
| | 0729 | 0656 | 0772 | 0772 | 0516 | 0553 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | 0637 | | | 0637 |
| 0.092 Furan104wk | 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 | 11491 | |
| Lymph Node | + | + | | | + | | | + | | | | + | + | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Axillary, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Cervical, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inguinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreatic, Bacterium | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2 1 2 3 3 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 4 3 2 2 3 1 2 2 2 3 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 1-4 .. Lesion qualified as:
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0729 | 0656 | 0778 | 0778 | 0518 | 0553 | 0667 | 0337 | 0758 | 0549 | 0486 | 0728 | 0578 | 0728 | 0578 | 0653 | 0564 | 0711 | 0559 | 0671 | 0661 | 0641 | 0662 | 0664 | | | 0665 |
| | 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 | 11491 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sinus, Dilatation | | | 1 | 4 | | | | | | | | 3 | | | | | | | | 2 | | | | | |
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell | | 2 | | 1 | | | 2 | 2 | 2 | | 1 | 2 | 2 | 1 | | | 2 | | | | 1 | | | | |
| Inflammation, Granulomatous Pigmentation | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | 4 | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hematopoietic Cell Proliferation | | | | 3 | 3 | | | | | | | 2 | | 1 | | | | 2 | | | 2 | | | 3 | |
| Hyperplasia, Lymphoid Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 4 | | 2 | | | 2 | | | | | | | | 1 | 2 | | 2 | 2 | | | 3 | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adventitia, Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adventitia, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|------------------|
| | 0
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1 | | | 0
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2 | 0
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4 | 0
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2
4 |
| Galactocele | X | | | X | | | X | X | | | | | | | | | X | X | | X | X | | | | X | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Dilatation | | 2 | 2 | | | | | | | | 2 | | | | | 1 | | | | | | | | | | |
| Epithelium, Hyperplasia | 2 | | | | 1 | | | 3 | | | | | | | | | | | | | | | | | | |
| Lobular, Hyperplasia | | | | | | | | | | | | | 3 | | | | | | | | | 2 | | | | |
| Skin | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | 4 | | | | | | | | | | | | | | | | | | | | | 4 | | | | |
| Inflammation, Chronic Active | | | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteopetrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | 2 | 3 | | 3 | | | 3 | | | | | | | | | | 4 | 3 | | 4 | | | | | 4 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | 4 | | | | | | | | | | | | | | | | | | | | 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|--------------------|---|--|
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8 | 0
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3 | 0
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4 | 0
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7 | 0
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6
1 | 0
5
4
9 | 0
6
7
1 | 0
6
4
6 | 0
6
1
2 | 0
6
2
4 | 0
6
1
5 | | | | | |
| Brain, Cerebrum
Hemorrhage
Ventricle, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 1 | 1 | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical
Hemorrhage
Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar
Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic
Hemorrhage
Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Bacterium | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 2 | | | | | | 2 | | | | | 1 | | | | | | | | | | | | | | 1 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 6 | 7 | 7 | 5 | 5 | 6 | 3 | 7 | 5 | 4 | 7 | 5 | 7 | 5 | 6 | 5 | 7 | 5 | 5 | 6 | 6 | 6 | | |
| | 2 | 5 | 2 | 2 | 1 | 6 | 5 | 3 | 2 | 4 | 8 | 2 | 7 | 2 | 7 | 5 | 6 | 1 | 6 | 4 | 7 | 4 | 1 | | |
| | 9 | 6 | 8 | 8 | 8 | 3 | 5 | 7 | 8 | 9 | 6 | 8 | 8 | 8 | 8 | 3 | 4 | 7 | 1 | 9 | 1 | 6 | 6 | | |
| | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | | |
| | 9 | 9 | 0 | 1 | 6 | 7 | 7 | 8 | 9 | 9 | 6 | 7 | 8 | 8 | 9 | 3 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | | |
| | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | | |

Polyarteritis
 Alveolar Epithelium, Hyperplasia
 Mediastinum, Necrosis
 Pleura, Bacterium
 Pleura, Foreign Body
 Pleura, Hemorrhage
 Pleura, Infiltration Cellular, Polymorphonuclear
 Pleura, Inflammation, Suppurative
 Pleura, Inflammation, Chronic
 Pleura, Necrosis

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Foreign Body | | | X | X | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | 1 | 2 | | | | 2 | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteopetrosis | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | |
| Cataract | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retinal Detachment | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|------|------|
| | 0729 | 0656 | 0728 | 0728 | 0518 | 0553 | 0657 | 0337 | 0752 | 0548 | 0722 | 0578 | 0728 | 0588 | 0654 | 0564 | 0711 | 0559 | 0671 | 0641 | | | 0622 | 0662 | 0612 | 0699 |
| 0.092 Furan104wk | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 9 | 9 | |
| | 9 | 9 | 0 | 1 | 6 | 7 | 7 | 8 | 9 | 9 | 6 | 7 | 8 | 9 | 3 | 4 | 4 | 4 | 4 | 5 | 6 | 6 | 7 | 8 | 8 | |
| | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | |

Infiltration Cellular, Lymphocyte
 Acinus, Degeneration
 Acinus, Hyperplasia

1

2

Zymbal's Gland

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | 3 | | | | | | | | | | | | | | | 2 | | | | | | |
| Nephropathy | 4 | 3 | 3 | 4 | 2 | 3 | 2 | 1 | 4 | 2 | 2 | 4 | 2 | 4 | 2 | 3 | 2 | 4 | 4 | 2 | 4 | 4 | 2 | 4 | 4 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | 3 | 1 | | | | | | | | | 1 | | | | | | | | | | | | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|-------|-----|
| | 078 | 078 | 067 | 067 | 076 | 076 | 077 | 077 | 077 | 057 | 076 | 006 | 006 | 059 | 072 | 006 | 059 | 077 | 066 | 076 | | | 067 | 066 | 077 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 02982 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bacterium | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | |
| Periesophageal Tissue, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Periesophageal Tissue, Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Anus, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | 3 | | | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | X | X | | | | | | | | | | | X | X | | X | | | | | | |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|
| | 0728 | 0728 | 0667 | 0667 | 0776 | 0776 | 0776 | 0776 | 0575 | 0776 | 0660 | 0575 | 0776 | 0776 | 0776 | 0667 | 0776 | 0667 | 0667 | 0667 | | | 0776 | 0776 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0298 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0298 | |
| | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9982 | |
| | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8921 | |
| | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 2112 | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | 2 | 1 | | | | | | | | | | 2 | 2 | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | 1 | | | | | 1 | | 1 | | 2 | | | | | | 3 | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | X | | X | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Vacuolization Cytoplasmic | | 1 | | | | 4 | | | | | | | | 4 | 2 | | 1 | | | 1 | | | | |
| Bile Duct, Biliary Tract, Hyperplasia | | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | | 1 | 2 | | | | | 1 | 1 | 1 | | 2 | | | 1 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Hepatocyte, Degeneration | | 2 | 2 | | 3 | | | | | | | 2 | | 2 | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Oval Cell, Hyperplasia | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Periportal, Vacuolization Cytoplasmic | | | | | | | | | | 1 | 2 | | | | | | | | 3 | | | 1 | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | + | + | | | | | | | + | | | | | | + | | | | + | | + | | + |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | 4 | 4 | | | | | | | 4 | | | | | | 4 | | | | 4 | | 4 | | 4 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | 3 | | |

* .. 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
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Experiment Number: 10119 - 01
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 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0728 | 0728 | 0667 | 0667 | 0679 | 0667 | 0677 | 0677 | 0677 | 0677 | 0575 | 0677 | 0660 | 0565 | 0677 | 0677 | 0677 | 0666 | 0672 | 0666 | 0677 | 0666 | 0666 | 0677 | | | 0677 |
| | 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 | 0298 | |
| | 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 | 0298 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Acinus, Degeneration | 1 | | | | 1 | | | | 1 | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | | 2 | | | | | | | | | 4 | 4 | | | 1 | 4 | | 4 | 2 | | | | |
| Inflammation, Chronic Active | | | | | 2 | | | | | | | | | 4 | 4 | | | 4 | | 3 | 2 | | | | | |
| Perforation | | | | | | | | | | | | | | 4 | | | | 4 | | | | | | | | |
| Ulcer | | | | | 3 | | | | | | | | | | | | 4 | | | | 4 | | | | | |
| Epithelium, Hyperplasia | | | | | 3 | | | | | | | | | 4 | 4 | | | 2 | 4 | | 3 | 2 | | | | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | + | | + | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Cardiomyopathy | 1 | 3 | 3 | | | | 3 | 3 | 2 | 3 | 2 | 3 | | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
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 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|-----|-----|-----|-----|
| | 078 | 078 | 064 | 065 | 079 | 061 | 078 | 078 | 078 | 050 | 079 | 063 | 060 | 053 | 079 | 078 | 079 | 064 | 072 | 068 | | | 072 | 064 | 065 | 065 | 072 |
| | 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 |
| | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 9 | 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 |
| | 8 | 9 | 0 | 0 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |

Inflammation, Chronic Active 1
 Mineralization
 Thrombosis X
 Pericardium, Hemorrhage 4
 Pericardium, Inflammation, Suppurative
 Pericardium, Inflammation, Chronic Active 2
 Pericardium, Necrosis 3
 Ventricle, Dilatation

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Vacuolization Cytoplasmic | 1 | 3 | 2 | 1 | 4 | 2 | 3 | 4 | | 1 | 3 | 3 | | 2 | 3 | 3 | 4 | 2 | | 2 | 1 | 1 | 2 | 1 | 2 | |
| Capsule, Fibrosis | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | 2 | 3 | | 3 | | 2 | 2 | 3 | | 3 | | | 2 | 1 | | | | | 2 | | 3 | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | 1 | | | | | 2 | | | | | | | | | 3 | | | | | | 1 | | | | 1 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |

* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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 Furan
 CAS Number: 110-00-9

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0728 | 0728 | 0667 | 0667 | 0677 | 0667 | 0677 | 0677 | 0677 | 0575 | 0677 | 0660 | 0569 | 0677 | 0677 | 0677 | 0666 | 0672 | 0668 | 0676 | | | 0666 | 0667 | 0677 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0298 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0298 | |

Pars Distalis, Angiectasis 4
 Pars Distalis, Cyst X
 Pars Distalis, Hyperplasia 2 3 4 2
 Pars Nervosa, Cyst

Thyroid Gland +
 Cyst
 C-cell, Hyperplasia 1 1 1 1 1 3 2 2 1 1 1 2 1 2 1 2 1 2 1 2
 Follicle, Cyst
 Follicular Cell, Hyperplasia

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Epididymis +
 Exfoliated Germ Cell 3 2 2
 Hypospermia 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4
 Epithelium, Degeneration 3 2 4 4 3 1 3 3 2
 Lumen, Dilatation
 Preputial Gland +
 Abscess 4 4
 Fibrosis 2 2 3 2 3 2 2 2 2 3 2 2 3
 Hyperkeratosis
 Inflammation, Suppurative 4 3 2 4 4 3 4 4 4
 Inflammation, Chronic Active 4 2 4 2 2 3 2 3 2 2 2 3
 Necrosis 4

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|--|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| FISCHER 344 RATS-NCTR RATS MALE | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 6 | 0 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | | | | |
| | 2 | 2 | 4 | 0 | 0 | 6 | 2 | 2 | 2 | 5 | 2 | 0 | 6 | 9 | 0 | 2 | 2 | 4 | 2 | 8 | 2 | 4 | | | | |
| 0.092 Furan104wk | 8 | 8 | 7 | 5 | 9 | 1 | 8 | 8 | 8 | 0 | 9 | 3 | 6 | 3 | 9 | 8 | 9 | 7 | 4 | 9 | 4 | 8 | | | | |
| | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| ANIMAL ID | | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | | | | |
| | | 8 | 9 | 0 | 0 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 0 | | | | |
| | | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Ectasia | | 3 | 4 | 4 | | 4 | | | 2 | 4 | 2 | | 3 | | | 3 | | | 4 | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | | | |
| Prostate | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Atrophy | | | | | | | | | | 2 | | | | | | | | | | | 2 | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | 3 | | | 4 | | | | | | | | |
| Inflammation, Suppurative | | 2 | | 1 | 2 | 3 | 2 | 1 | 2 | | 3 | 2 | 2 | | 4 | 2 | 2 | 4 | | 2 | 2 | 2 | 3 | 3 | 2 | |
| Inflammation, Chronic Active | | | 2 | | | | | | | | 2 | | | | | | | | 1 | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | 1 | 1 | | 2 | 2 | | | | | 2 | | | | | | 1 | | |
| Seminal Vesicle | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | 2 | | 2 | | 3 | | | | | | | | 2 | 3 | | 3 | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | 4 | | | | 2 | | | | | | | | 2 | | 3 | 2 | | | | | | | | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | 2 | | | | | | | 3 | | | 2 | | | 2 | 2 | 1 | | | 1 | 2 | | | 2 | | |
| Interstitial Cell, Hyperplasia | | | 1 | | 1 | | | | | | 1 | 1 | | 3 | | 1 | 2 | 1 | 2 | | | 1 | 2 | | | |
| Seminiferous Tubule, Degeneration | | 4 | 4 | 3 | | 4 | 1 | 4 | 4 | 4 | | 4 | | | 2 | 4 | 2 | 2 | | 4 | 1 | 4 | | 2 | 4 | 4 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | 2 | | | 4 | | | | | | | | | | | | | | 4 | 3 | | 3 | 2 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|-----|-----|-----|-----|
| | 078 | 078 | 067 | 065 | 079 | 061 | 078 | 078 | 078 | 050 | 079 | 063 | 060 | 053 | 079 | 078 | 079 | 067 | 068 | 076 | | | 065 | 066 | 077 | 067 | 068 |
| | 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 |
| | 2 | 2 | 4 | 0 | 0 | 6 | 2 | 2 | 2 | 5 | 2 | 0 | 6 | 9 | 0 | 2 | 2 | 4 | 2 | 8 | 2 | 4 | 3 | 2 | 2 | 2 | 2 |
| | 8 | 8 | 7 | 5 | 9 | 1 | 8 | 8 | 8 | 0 | 9 | 3 | 6 | 3 | 9 | 8 | 9 | 7 | 9 | 4 | 8 | 8 | 5 | 8 | 8 | 8 | 8 |
| | 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 |
| | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 9 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 9 | 9 | 9 | 9 |
| | 8 | 9 | 0 | 0 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 1 | 1 | 8 | 9 | 9 | 9 |
| | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lymph Node | + | + | + | | + | | | | | | | | | | + | + | + | | + | | | | | | | | + | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Axillary, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervical, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | 4 | | | | | | | | | | | | | | 3 | | | | | | | | 4 | | | | | | |
| Lumbar, Infiltration Cellular, Polymorphonuclear | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | 4 | 2 | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Bacterium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pancreatic, Necrosis | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 2 | |
| Infiltration Cellular, Plasma Cell | 3 | 2 | | | 2 | | | | | | 2 | | | | | | | | | | | | | | | | | 2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|
| | 0
7
2
8 | 0
7
2
8 | 0
6
4
8 | 0
6
0
5 | 0
7
0
9 | 0
6
6
1 | 0
7
2
8 | 0
7
2
8 | 0
7
2
8 | 0
5
2
0 | 0
7
6
3 | 0
0
0
6 | 0
5
9
3 | 0
7
0
9 | 0
7
2
8 | 0
7
2
9 | 0
6
4
7 | 0
7
2
9 | 0
6
8
4 | 0
6
2
8 | | | 0
6
4
5 | 0
6
3
5 | 0
7
2
8 |
| Sinus, Dilatation | 4 | | | | | | | | 2 | | 3 | | | | | 2 | 2 | | | | | | | 2 | |
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell Inflammation, Granulomatous Pigmentation Sinus, Dilatation | 2 | | | 2 | | | | | | | | | | 2 | 2 | | 2 | | | | 2 | | | 2 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Developmental Malformation Fibrosis Hematopoietic Cell Proliferation Hyperplasia, Lymphoid Necrosis Pigmentation | 2 | 3 | | 3 | | | 2 | | | | 1 | | | | 4 | | 3 | | 2 | 2 | 4 | 3 | | 3 | |
| Thymus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy Cyst Necrosis Adventitia, Foreign Body Adventitia, Infiltration Cellular, Polymorphonuclear | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | X |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|
| | 0728 | 0728 | 0667 | 0667 | 0676 | 0676 | 0677 | 0677 | 0677 | 0677 | 0575 | 0677 | 0660 | 0569 | 0677 | 0677 | 0677 | 0666 | 0677 | 0666 | | | 0666 | 0677 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0298 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0299 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0300 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0301 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0302 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0303 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0304 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0305 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0306 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0307 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0308 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0309 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0310 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0311 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0312 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0313 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0314 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0315 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0316 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0317 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0318 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0319 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0320 | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|--|
| Galactocele | X | | | | X | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| Inflammation, Granulomatous | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Dilatation | | | 2 | 2 | | 2 | | | | | 1 | | | | | | | | 3 | | | | |
| Epithelium, Hyperplasia | | | | | | | | 1 | | | | | | | 2 | | | | | | | | |
| Lobular, Hyperplasia | | 3 | | | | | | | | 2 | | | | | | | | 2 | 2 | | | 4 3 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | 3 | 2 | | | 4 | | | 2 | | 4 | | | 4 | | | 2 | | 4 | 3 | | 2 | 4 4 4 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|
| | 078 | 078 | 067 | 067 | 076 | 076 | 077 | 077 | 077 | 057 | 076 | 006 | 005 | 077 | 077 | 077 | 066 | 072 | 068 | 076 | 066 | 067 | 077 | 077 | | |
| Brain, Cerebrum Hemorrhage Ventricle, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Cervical Hemorrhage Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Lumbar Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord, Thoracic Hemorrhage Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bacterium Congestion | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Fibrosis Hemorrhage | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Histiocytosis Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 2 | 1 | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Inflammation, Chronic Active Necrosis | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------------------|-----|-----|-----|
| | 078 | 078 | 064 | 065 | 079 | 061 | 078 | 078 | 078 | 050 | 079 | 063 | 060 | 053 | 079 | 078 | 067 | 068 | 072 | 064 | | | 065 | 077 | 077 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 298 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 229 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 908 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 218 | |

Polyarteritis
 Alveolar Epithelium, Hyperplasia
 Mediastinum, Necrosis
 Pleura, Bacterium
 Pleura, Foreign Body
 Pleura, Hemorrhage
 Pleura, Infiltration Cellular, Polymorphonuclear
 Pleura, Inflammation, Suppurative
 Pleura, Inflammation, Chronic
 Pleura, Necrosis

X
 4
 4
 4

Nose
 Foreign Body
 Inflammation, Suppurative
 Necrosis
 Osteopetrosis

+
 1 1

Trachea
 Inflammation, Suppurative
 Necrosis

+ +

SPECIAL SENSES SYSTEM

Eye
 Cataract
 Metaplasia, Osseous
 Retinal Detachment
 Retina, Degeneration

+
 2 2
 1

Harderian Gland

+ +

* .. 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
 1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|
| | 0728 | 0728 | 0667 | 0667 | 0776 | 0776 | 0776 | 0776 | 0575 | 0776 | 0606 | 0506 | 0795 | 0779 | 0779 | 0666 | 0666 | 0776 | 0666 | 0666 | | | 0776 | 0776 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0298 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0299 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0300 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0301 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0302 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0303 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0304 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0305 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0306 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0307 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0308 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0309 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0310 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0311 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0312 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0313 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0314 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0315 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0316 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0317 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0318 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0319 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0320 | |

Infiltration Cellular, Lymphocyte
 Acinus, Degeneration
 Acinus, Hyperplasia

4
4

2

Zymbal's Gland

URINARY SYSTEM

Kidney
 Cyst
 Hydronephrosis
 Nephropathy
 Pigmentation
 Pelvis, Inflammation, Suppurative
 Transitional Epithelium, Hyperplasia

Urethra

Urinary Bladder
 Inflammation, Chronic
 Lumen, Dilatation
 Serosa, Inflammation, Chronic Active
 Transitional Epithelium, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | |
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* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0379 | 0565 | 0719 | 0728 | 0729 | 0729 | 0729 | 0729 | 0626 | 0642 | 0645 | 0672 | 0672 | 0672 | 0672 | 0672 | 0672 | 0672 | 0672 | 0672 | 0672 | 0672 | 0672 | 0672 | | 0672 |
| ANIMAL ID | 0392 | 0400 | 0401 | 0402 | 0403 | 0404 | 0405 | 0406 | 0407 | 0408 | 0409 | 0410 | 0411 | 0412 | 0413 | 0414 | 0415 | 0416 | 0417 | 0418 | 0419 | 0420 | 0421 | 0422 | 0423 | 0424 |
| | 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 |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 9 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 |
| Bacterium | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Periesophageal Tissue, Hemorrhage | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 |
| Periesophageal Tissue, Necrosis | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 93 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 95 |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 95 |
| Anus, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 95 |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 92 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 93 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | 18 |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|-----|
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| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Degeneration, Cystic | | | | | | 3 | | 1 | | | | | | 2 | | | | 1 | | | | | | | 15 | 1.9 |
| Eosinophilic Focus | | | | | | | | | | | | | | X | | | | | | | | | | | 1 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 | 3.0 |
| Granuloma | 1 | | 1 | 2 | | | | | 1 | | | 1 | | | | | | | | | | | | | 20 | 1.3 |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | 3 | | | | | | | | | | | 2 | 2.5 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 |
| Vacuolization Cytoplasmic | 2 | | | | 2 | 2 | | | | | | | | | 4 | | 2 | | | | | | | | 19 | 2.3 |
| Bile Duct, Biliary Tract, Hyperplasia | | | | 1 | 1 | | 3 | | 1 | | | 1 | | 4 | 1 | | | | | 1 | 2 | 1 | 4 | | 56 | 1.6 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Centrilobular, Hepatocyte, Degeneration | | | | | | 3 | | 2 | | | | | | | | | | 2 | | | 3 | | | | 16 | 2.2 |
| Hepatocyte, Necrosis | | | | | | | | | | | | 2 | | | | | | | | | | | | | 4 | 1.8 |
| Oval Cell, Hyperplasia | | | | | | 2 | | | | | | | | 4 | | | | | | | | | | | 8 | 2.1 |
| Periportal, Vacuolization Cytoplasmic | | 1 | 2 | | | | | | | | | | | | 2 | | | | | 2 | | | | | 12 | 1.8 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 25 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Fat, Necrosis | | | | | | 4 | | | | | | | | 4 | | | | | | | | 4 | | | 23 | 3.9 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 100 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Acinar Cell, Hyperplasia | | | 2 | 4 | | | | | | 3 | | | | 2 | | | | | | | | | | | 17 | 2.6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|---|---|--------|
| | 0379 | 0565 | 0719 | 0728 | 0729 | 0706 | 0642 | 0541 | 0722 | 0678 | 0562 | 0669 | 0477 | 0661 | 0665 | 0666 | 0667 | 0669 | 0665 | 0667 | | 0661 | 0728 | | | |
| ANIMAL ID | 03992 | 04002 | 04013 | 04034 | 04042 | 04056 | 04061 | 04066 | 04051 | 04055 | 04055 | 04055 | 04055 | 04055 | 04066 | 04066 | 04066 | 04077 | 04077 | 04077 | 04077 | 04055 | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 17 1.8 | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | | |
| Edema | | | 3 | | | 2 | | | | | | | | | 4 | | | 2 | 2 | | 4 | | 16 3.1 | | | |
| Inflammation, Chronic Active | | | 2 | | 2 | 2 | | | | | | | | | 3 | | | 1 | 2 | | 4 | | 19 2.6 | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | 4 4.0 | | | |
| Ulcer | | | 3 | | | 2 | | | | | | | | | 4 | | | 2 | | | | | 7 3.1 | | | |
| Epithelium, Hyperplasia | | | 2 | | 4 | 3 | | | | | | | | | 3 | | | 2 | 2 | | 3 | | 24 2.7 | | | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 1 | 1 3.0 | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 97 | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | 4 | | 2 4.0 | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | 4 | | 2 3.5 | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Mucosa, Hyperplasia | | | 2 | | | 2 | | | | | | | | | | | | | | | | | 5 2.0 | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | | |
| Cardiomyopathy | 2 | 1 | 2 | 1 | 2 | 2 | | 1 | 2 | 2 | 4 | 2 | 1 | 2 | | 2 | 2 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 4 | 89 2.1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0379 | 0565 | 0719 | 0728 | 0729 | 0706 | 0642 | 0541 | 0728 | 0670 | 0678 | 0592 | 0669 | 0477 | 0661 | 0665 | 0667 | 0669 | 0667 | 0662 | | 0661 |
| ANIMAL ID | 03992 | 04002 | 04001 | 04023 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thrombosis | | | | | | X | | | | | | | | X | X | | | | | | X | 12 |
| Pericardium, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pericardium, Inflammation, Suppurative | | | | | | | | | 3 | | | | | | | | | | | | | 1 |
| Pericardium, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pericardium, Necrosis | | | | | | | | 4 | | | | | | | | | | | | | | 2 |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|----|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | | |
| Accessory Adrenal Cortical Nodule | | | | X | | | | | | | | | X | | | | | | | | | | 8 | | | |
| Hyperplasia | | | | | 2 | | | | | | | 2 | | | | | 2 | | | | | | 7 | | | |
| Hypertrophy | | | 3 | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Vacuolization Cytoplasmic | | 2 | 4 | | | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | | 1 | | 2 | 4 | 3 | 3 | 2 | 4 | 2 | 74 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | |
| Hyperplasia | | | | | 1 | | | | | | | 3 | | 1 | | 2 | | | 2 | | 4 | | 3 | 3 | 1 | 35 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 98 | | |
| Hyperplasia | | | | | 3 | | | | | | | | | | | | 3 | | | 1 | | | | | 15 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | |
| Hemorrhage | | | | | | | | | | 4 | | 4 | | | | | | | | | | | | | 7 | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0379 | 0565 | 0719 | 0728 | 0729 | 0729 | 0729 | 0016 | 0642 | 0549 | 0722 | 0722 | 0722 | 0599 | 0658 | 0677 | 0661 | 0665 | 0667 | 0669 | | 0660 | 0661 |
| ANIMAL ID | 0.092 Furan104wk | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
| 03992 | 04002 | 04013 | 04024 | 04041 | 04042 | 04044 | 04045 | 04066 | 04065 | 04055 | 04055 | 04055 | 04055 | 04055 | 04066 | 04068 | 04068 | 04099 | 04000 | 04011 | | 04044 | 04055 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|--|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|--|----|-----|
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Pars Distalis, Cyst | | | | X | | | | | | | | | | | | | | | | | | | | 5 | |
| Pars Distalis, Hyperplasia | 1 | 2 | | 1 | | 4 | | | | | | | | | | | | | 2 | | | 1 | | 23 | 2.1 |
| Pars Nervosa, Cyst | | | | | | X | | | | | | | | | | | | | | | | | | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| C-cell, Hyperplasia | | 1 | 2 | 3 | | | | 1 | | | 1 | 2 | 1 | | 1 | | | 2 | | 1 | 1 | | 2 | 52 | 1.4 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | X | | 3 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | |
| Exfoliated Germ Cell | | 2 | 2 | | | | | | | | | 1 | 3 | | | | | 3 | 1 | | | 2 | 32 | 2.2 |
| Hypospermia | | | 3 | 4 | 4 | 4 | | 3 | | | | 4 | | 4 | 4 | | | 4 | | 4 | | 4 | 48 | 3.7 |
| Epithelium, Degeneration | | | | 3 | 3 | 2 | | 2 | | | | 2 | 1 | 3 | 3 | | | | | 3 | | | 33 | 2.6 |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | |
| Abscess | | | | 4 | | | | | | | | 4 | | | 4 | | | | | | | 4 | 10 | 4.0 | |
| Fibrosis | | | 3 | 3 | 2 | 3 | | 2 | | | 3 | | 2 | 2 | | 4 | | 4 | | | 2 | 4 | 46 | 2.5 | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | 3 | 4.0 | |
| Inflammation, Suppurative | 2 | 4 | 4 | | | 3 | | 3 | | 2 | | 4 | | | 4 | 4 | | | | 3 | | 3 | 35 | 3.3 | |
| Inflammation, Chronic Active | | | | | 2 | | | | | | | 4 | | 2 | | | | 3 | 2 | | 2 | | 3 | 45 | 2.4 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 |

* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|-----|-----|-----|-----|
| | 0379 | 0565 | 0719 | 0728 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | 0729 | | | | |
| ANIMAL ID | 03992 | 04002 | 04001 | 04022 | 04024 | 04021 | 04025 | 04026 | 04021 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | |
| Duct, Ectasia | 4 | 4 | 3 | | 2 | 2 | | 2 | | 2 | | | | 4 | 2 | | 3 | 4 | | | | 2 | 2 | 48 | 3.2 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | |
| Atrophy | | | | 2 | | 3 | | 2 | | | | | | | | 2 | | | | | | 3 | | 14 | 2.4 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | 3 | | | 1 | 3 | 2.0 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | |
| Inflammation, Suppurative | | 2 | 2 | | 3 | 2 | | | 2 | 2 | 3 | 2 | 2 | | | 2 | 4 | 3 | 1 | 3 | 2 | 2 | | 70 | 2.3 | |
| Inflammation, Chronic Active | | | | 1 | | | | | | | | | | | | | | | | | | 2 | | 12 | 1.8 | |
| Epithelium, Hyperplasia | | | 2 | 2 | 4 | | | | | | 2 | | | | | | | | 1 | 4 | | | 1 | 29 | 1.9 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 98 | | |
| Atrophy | | | | 2 | 2 | 3 | | 2 | | | | | | 2 | | 3 | 1 | | | | | 3 | 3 | 31 | 2.5 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Lumen, Dilatation | | | | | | | | | 2 | 2 | | | | | | | 4 | | 2 | | | | 2 | 15 | 2.6 | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Polyarteritis | | | 2 | 1 | | | | | | | 2 | | 2 | | | | | | 1 | | 1 | | | 23 | 1.8 | |
| Interstitial Cell, Hyperplasia | 2 | 1 | | | | 1 | | | | | 1 | 2 | | | | | 1 | 1 | 1 | 1 | | | 42 | 1.4 | | |
| Seminiferous Tubule, Degeneration | | 2 | 4 | 4 | 4 | 4 | | 4 | | 2 | | 4 | 4 | 4 | 4 | | | | | 4 | 2 | 4 | 2 | 4 | 76 | 3.2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | 4 | | 2 | 4.0 |
| Hypocellularity | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Myeloid Cell, Hyperplasia | | 4 | | | | | 3 | | | | 3 | | | 4 | | 2 | | | | | | | 4 | 20 | 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
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 1-4 .. Lesion qualified as:
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------|--|---------------|
| | 0
3
7
9 | 0
5
6
5 | 0
7
1
9 | 0
7
2
8 | 0
7
2
9 | 0
7
2
9 | 0
0
6
2 | 0
6
4
2 | 0
4
9
2 | 0
5
1
8 | 0
7
2
8 | 0
6
2
0 | 0
6
7
8 | 0
5
8
7 | 0
6
7
2 | 0
4
1
2 | 0
6
6
9 | 0
6
5
6 | 0
6
7
5 | 0
6
9
2 | 0
6
2
0 | 0
6
6
1 | 0
7
8 | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 38 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Axillary, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Cervical, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inguinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.7 |
| Lumbar, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Lumbar, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Lumbar, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 5 3.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Pancreatic, Bacterium | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Pancreatic, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.2 |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | 100 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 21 2.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 48 2.3 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* .. 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

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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|--------|----|
| | 0379 | 0565 | 0719 | 0728 | 0729 | 0729 | 0066 | 0642 | 0549 | 0722 | 0722 | 0728 | 0566 | 0666 | 0477 | 0661 | 0665 | 0667 | 0669 | 0662 | | 0661 | 0728 | | |
| ANIMAL ID | 03992 | 04002 | 04011 | 04024 | 04041 | 04052 | 04066 | 04082 | 04095 | 04105 | 04115 | 04125 | 04148 | 04168 | 04188 | 04202 | 04219 | 04237 | 04257 | 04277 | 04297 | 04317 | | | |
| Sinus, Dilatation | | | | 2 | 2 | | | | | 4 | | | | 2 | | 2 | 2 | | 4 | | | 4 | 22 2.6 | | |
| Lymph Node, Mesenteric Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | M | + | + | 97 |
| Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell | | | | 3 | | | | | 1 | | 2 | | 2 | | | | | | 1 | | | | | 23 1.8 | |
| Inflammation, Granulomatous Pigmentation | | 2 | | | | | | | | | | | 3 | 2 | | 2 | | | | 3 | | | | 16 2.2 | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | |
| Developmental Malformation | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 15 3.1 | |
| Hematopoietic Cell Proliferation | | | | 2 | | | | | | 1 | | | 3 | 4 | | 2 | | 2 | | 2 | 3 | | 2 | 36 2.3 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 4.0 | |
| Pigmentation | 2 | | | 2 | | | | | | 2 | | 2 | 3 | | | | 2 | 3 | | 2 | 3 | | 2 | 37 2.5 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 98 | |
| Atrophy | 3 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 91 4.0 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Necrosis | | | | | | | | | 4 | | | | | | | | | | | | | | | 2 4.0 | |
| Adventitia, Foreign Body | | | | | | | | | X | | | | | | | | | | | | | | | 1 | |
| Adventitia, Infiltration Cellular, Polymorphonuclear | | | | | | | | | 4 | | | | | | | | | | | | | | | 2 3.0 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

* .. 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
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 Furan
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| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0379 | 0565 | 0719 | 0728 | 0729 | 0729 | 0066 | 0642 | 0549 | 0722 | 0672 | 0592 | 0667 | 0467 | 0669 | 0665 | 0665 | 0667 | 0669 | 0662 | | 0661 |
| ANIMAL ID | 03992 | 04002 | 04011 | 04023 | 04024 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Galactocoele | | | X | | | X | | | X | X | | X | X | | | | | X | X | | X | X | 45 |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Chronic | | | | | | 2 | | | | | | | | | | | | | | | | | 2 3.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | 4 | | | | | | | | | | | 1 4.0 |
| Alveolus, Dilatation | | | | | | | | | | | 3 | | 1 | | 3 | | | 4 | | | | 1 | 19 2.3 |
| Epithelium, Hyperplasia | | | | | | | | | | | 2 | | | | | | | 1 | | | | | 9 1.7 |
| Lobular, Hyperplasia | | | | | 4 | | | | | | | | 4 | | 4 | | | | 4 | | | | 15 3.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 99 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | X | | | | | | | | | | | 1 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | 1 | | | | | | | 2 2.5 |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 |
| Compression | | | 2 | | | 1 | | | 3 | 2 | | 3 | | | | | 4 | 3 | | 4 | 4 | | 42 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0379 | 0565 | 0719 | 0728 | 0729 | 0729 | 0606 | 0642 | 0549 | 0722 | 0722 | 0728 | 0566 | 0666 | 0477 | 0661 | 0665 | 0667 | 0669 | 0660 | | 0661 |
| ANIMAL ID | 03992 | 04002 | 04001 | 04022 | 04044 | 04052 | 04066 | 04066 | 04055 | 04055 | 04055 | 04055 | 04066 | 04066 | 04088 | 04088 | 04099 | 04000 | 04001 | 04014 | 04024 | 04051 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|-----|-----|
| Brain, Cerebrum Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | 1 | 4.0 | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 13 | 1.2 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Spinal Cord, Cervical Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3.0 |
| Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2.0 |
| Spinal Cord, Lumbar Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2.0 |
| Spinal Cord, Thoracic Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3.0 |
| Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 | | | |
| Bacterium | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 3.5 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1.5 |
| Histiocytosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 2 | 18 | 1.8 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 2.5 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |

* .. 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
 1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.092 Furan104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| | 0379 | 0565 | 0719 | 0778 | 0779 | 0779 | 0006 | 0642 | 0451 | 0578 | 0620 | 0678 | 0597 | 0662 | 0669 | 0472 | 0669 | 0665 | 0667 | 0667 | | 0660 | 0661 |
| ANIMAL ID | 03992 | 04002 | 04001 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 | 04022 |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 4 | | 1 4.0 |
| Mediastinum, Necrosis | | | | | | | | | | | | | | | | | | 4 | | | | | 1 4.0 |
| Pleura, Bacterium | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pleura, Foreign Body | | | | | | | | | X | | | | | | | | | | | | | | 1 |
| Pleura, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pleura, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pleura, Inflammation, Suppurative | | | | | | | | 4 | | | | | | | | | | | | | | | 1 4.0 |
| Pleura, Inflammation, Chronic | | | | | | | | | | | | | | 4 | | | | | | | | | 1 4.0 |
| Pleura, Necrosis | | | | | | | | 4 | | | | | | | | | | | | | | | 2 4.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 97 |
| Foreign Body | | | | | | | | | | | | | X | | | | | | | | X | | 6 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | 4 | 1 | 4 | | 1 | | 12 1.7 |
| Necrosis | | | | | | | | | | | | | | | | | | | 4 | | | | 1 4.0 |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | 4 | | | | 1 4.0 |
| Necrosis | | | | | | | | | | | | | | | | | | 4 | | | | | 1 4.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 96 |
| Cataract | | | 1 | | | | | | | | | | | | | | | | | 2 | | | 4 1.5 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Retinal Detachment | | | | | | | | | | | | | | | | | | | | 4 | | | 1 4.0 |
| Retina, Degeneration | | | 3 | | | | | | | | | | | | 2 | | | 2 | | 4 | | 2 | 8 2.4 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 100 |

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

Experiment Number: 10119 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 06/03/2014

Test Type: CHRONIC

Furan

Time Report Requested: 08:42:42

Route: GAVAGE

CAS Number: 110-00-9

First Dose M/F: 09/07/09 / NA

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|
| FISCHER 344 RATS-NCTR RATS MALE
0.092 Furan104wk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| | 3 | 5 | 7 | 7 | 7 | 7 | 0 | 6 | 4 | 5 | 7 | 6 | 7 | 5 | 6 | 6 | 4 | 6 | 6 | 6 | | 6 | 6 |
| | 7 | 6 | 1 | 2 | 2 | 2 | 1 | 1 | 4 | 9 | 2 | 2 | 2 | 9 | 5 | 8 | 7 | 1 | 1 | 5 | 7 | 9 | 2 |
| | 9 | 5 | 9 | 8 | 9 | 9 | 6 | 2 | 2 | 1 | 8 | 0 | 8 | 7 | 2 | 9 | 7 | 2 | 9 | 6 | 5 | 7 | 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 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 9 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 9 | 0 | 1 | 3 | 4 | 4 | 5 | 6 | 6 | 5 | 5 | 6 | 7 | 8 | 8 | 9 | 0 | 0 | 1 | 4 | 4 | 5 | 5 |
| | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 |

| | | | |
|-----------------------------------|---|---|-----|
| Infiltration Cellular, Lymphocyte | 1 | 5 | 1.8 |
| Acinus, Degeneration | 2 | 2 | 2.0 |
| Acinus, Hyperplasia | 1 | 1 | 4.0 |

Zymbal's Gland + + + **3**

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|---|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | 100 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | 10 | 1.7 | |
| Nephropathy | 3 | 2 | 4 | 2 | 4 | 4 | | 3 | 2 | 2 | 4 | 3 | 4 | 1 | 2 | 4 | 1 | 3 | 4 | 4 | 4 | 3 | 3 | 3 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 23 | 1.5 | |

Urethra + + + **1**

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|-----|
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | 100 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | 10 | 3.9 |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 3 | 1.7 |

* .. 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

1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|
| | 0729 | 0728 | 0759 | 0778 | 0778 | 0765 | 0771 | 0742 | 0772 | 0772 | 0772 | 0763 | 0753 | 0766 | 0756 | 0778 | 0768 | 0766 | 0772 | 0774 | | | 0768 | 0778 | 0768 | 0751 | 0759 |
| | 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 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 9 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
| | 2 | 3 | 4 | 5 | 1 | 2 | 2 | 3 | 4 | 8 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 3 | 4 | 5 | 6 | 6 | 5 | 5 | 6 | 6 | 6 |
| | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus
Perforation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | X | X | | | | | | | | | | | | | X | | | | | | | X | |
| Cholangiofibrosis | 2 | 2 | | 3 | 4 | 1 | 2 | | 1 | 2 | 3 | 1 | | 1 | 1 | 2 | 1 | | 2 | 2 | 1 | 1 | | 1 | 1 | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | 1 | | | | | | | | | | | 1 | | | | | | | | | 1 |
| Eosinophilic Focus | | | | X | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0729 | 0728 | 0750 | 0772 | 0777 | 0766 | 0777 | 0744 | 0777 | 0777 | 0766 | 0755 | 0766 | 0755 | 0777 | 0766 | 0766 | 0722 | 0777 | 0766 | | | 0777 |
| | 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 |
| | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 9 | 9 | 9 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 9 | 9 | 9 | 9 | 2 |
| | 2 | 3 | 4 | 5 | 1 | 2 | 2 | 3 | 4 | 8 | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 3 | 4 | 5 | 5 | 6 | 5 |
| | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|---|---|---|---|--|---|---|--|---|---|--|---|---|---|---|---|---|---|---|---|
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | X | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | 2 | | | | 4 | | | | | | 3 | | | | | | 2 | | | | |
| Bile Duct, Biliary Tract, Hyperplasia | | 2 | 2 | 4 | 2 | 4 | | | 2 | 4 | | | 1 | | 1 | 1 | | 2 | 3 | 2 | 1 | | 1 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | 3 | | | | | | | | | | 2 | | | 3 | 2 | 2 | 2 |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | 1 | | | | 3 | | 2 | | 2 |
| Hepatocyte, Periportal, Degeneration | | | | | | | | | | | | | | | | | | 4 | | | | | |
| Oval Cell, Hyperplasia | | | | 2 | | 2 | | | | | | 3 | | | | | | | | | | | |
| Periportal, Vacuolization Cytoplasmic | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Subcapsular, Fibrosis | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Subcapsular, Inflammation, Chronic | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Subcapsular, Pigmentation | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|-----------|--------------------|
| | 0
7
2
9 | 0
7
2
8 | 0
5
0
9 | 0
7
2
8 | 0
7
2
8 | 0
6
5
5 | 0
7
0
1 | 0
4
2
2 | 0
7
2
8 | 0
7
2
8 | 0
6
5
3 | 0
5
0
5 | 0
6
0
6 | 0
5
2
8 | 0
7
6
5 | 0
6
0
6 | 0
7
2
2 | 0
6
9
4 | 0
6
2
8 | 0
7
2
8 | 0
6
1
1 | 0
5
9
0 | 0
5
9
7 | | | | |
| | 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
3
2
1 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Fibrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | | | 4 | | | | 4 | | | 4 | | | 4 | | | | | | | | | | | | |
| Perforation | | | | | | | | 4 | | | 4 | | | | | | | | | | | | | | | |
| Ulcer | | | | 4 | | | | | | | | | | 4 | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 2 | | | 3 | | | 1 | 3 | | | 4 | 1 | 1 | 4 | | | | | | 1 | | | | | | |
| Serosa, Fibrosis | | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | | 2 | 2 | 3 | | 2 | 1 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | X | | | | | | X | | | | |
| Pericardium, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 A .. Autolysis precludes evaluation
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0728 | 0759 | 0778 | 0778 | 0765 | 0771 | 0742 | 0774 | 0774 | 0774 | 0766 | 0755 | 0766 | 0755 | 0778 | 0766 | 0772 | 0772 | 0766 | 0776 | 0766 | 0755 | 0755 | 0755 | | |
| | 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 | | |
| | 3 | 3 | 3 | 3 | 5 | 5 | 5 | 5 | 5 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 2 | 3 | 4 | 5 | 1 | 2 | 2 | 3 | 4 | 8 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 3 | 4 | 5 | 6 | 5 | 6 | | | |
| | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | | | |
| Vacuolization Cytoplasmic Capsule, Fibrosis | 3 | 2 | 2 | 3 | | 4 | 2 | 1 | 2 | 4 | 1 | 3 | 3 | 2 | 2 | 2 | | 2 | 3 | 2 | 1 | 2 | 3 | 2 | 2 | | |
| Adrenal Medulla Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | 4 | 2 | | 1 | | 2 | 2 | 4 | | | 1 | | | 2 | | 3 | | | | | 1 | | | |
| Mineralization | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pigmentation | | | | | | | | | | | | | | 4 | | | 4 | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | 1 | 2 | | | 4 | | | | | 2 | | 2 | | | | | | |
| Pars Distalis, Necrosis | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Rathke's Cleft, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Follicle, Cyst | | 1 | | 2 | | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | | 2 | | 1 | 1 | 2 | 1 | | | X | | |

GENERAL BODY SYSTEM

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| FISCHER 344 RATS-NCTR RATS MALE

0.2 Furan 104 wk | DAY ON TEST | 079 | 078 | 059 | 078 | 078 | 065 | 071 | 042 | 078 | 078 | 078 | 063 | 055 | 066 | 058 | 078 | 065 | 066 | 072 | 074 | 068 | 078 | 061 | 059 | 059 | 057 |
| | ANIMAL ID | 002 | 003 | 003 | 003 | 005 | 005 | 005 | 005 | 009 | 009 | 009 | 000 | 000 | 000 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 002 | 002 | 002 | 002 |
| | | 1 | 2 | 4 | 1 | 2 | 1 | 2 | 3 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | | 1 | 2 | 4 | 1 | 2 | 1 | 2 | 3 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exfoliated Germ Cell | 2 | | | | | | | | | | | | | 3 | | | | | | | | | 3 | | | 2 |
| Hypospermia | 4 | | | 2 | 4 | | | | 4 | 4 | 4 | | | | | | | | | 4 | 4 | 4 | 3 | | | 2 |
| Epithelium, Degeneration Fat, Necrosis | 2 | 1 | | 2 | | 2 | 3 | | 3 | 3 | 3 | | | | | | | | | 4 | 4 | 4 | 2 | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | | | | 4 | | | | | | 4 | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | 3 | | 3 | | 3 | | | 3 | 2 | 2 | 2 | 2 | 3 | 3 | | | 2 | | |
| Inflammation, Suppurative | 3 | | | | | | | 4 | 4 | 4 | 3 | 4 | | | | | | | | 1 | | | 3 | | | |
| Inflammation, Chronic Active | | 3 | 3 | | 2 | 2 | 2 | 2 | | | | | | 1 | 2 | 2 | 3 | 3 | 2 | 2 | | | | | 2 | 2 |
| Acinus, Hyperplasia | | | | | 3 | | | | | | 2 | | | | | | | 2 | | | | | | | 3 | |
| Duct, Ectasia | 4 | | 2 | | 3 | 4 | 2 | | 4 | | 4 | 4 | | 3 | 2 | 2 | 4 | | | 3 | 1 | | | 4 | 3 | 4 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 2 | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | 2 | | | | | | 2 | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | 1 | 2 | | 2 | 3 | 3 | 1 | 1 | 2 | | | | 2 | 2 | | 1 | 1 | 1 | 1 | | | 1 | 2 | | 1 |
| Inflammation, Chronic Active | | | | | 2 | | | | | | | | | | | | | | | | 2 | | | | 1 | 1 |
| Epithelium, Hyperplasia | | | | | | | | | | | | 2 | 3 | | | | | | | | | | | | | 1 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 2 | | | | | | 2 | | 3 | 2 | 3 | 2 | | | | | | | | | | | 2 | 2 | 3 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 CAS Number: 110-00-9

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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|-----------------------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------------|--|
| | 0729 | 0728 | 0509 | 0728 | 0728 | 0605 | 0701 | 0422 | 0708 | 0708 | 0603 | 0505 | 0606 | 0508 | 0708 | 0606 | 0702 | 0704 | 0608 | 0708 | 0601 | 0509 | 0507 | 0002 | | | |
| 0.2 Furan 104 wk | 00321 | 00332 | 00341 | 00352 | 00351 | 00322 | 00332 | 00342 | 00382 | 00381 | 00392 | 00391 | 00402 | 00401 | 00412 | 00411 | 00422 | 00421 | 00432 | 00431 | 00442 | 00441 | 00452 | 00451 | 00321 | | |
| Lumen, Dilatation | 2 | | | 2 | | | 2 | | | | | | 3 | | 2 | 3 | | | 3 | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Polyarteritis | | | | 2 | | | | | | 1 | | | 1 | 2 | | 2 | | | | | 2 | | | | | | |
| Interstitial Cell, Hyperplasia | | 2 | 2 | 1 | | 1 | 1 | 2 | | 1 | | | 1 | 1 | | | 2 | 2 | | | 1 | 2 | 1 | | 2 | | |
| Seminiferous Tubule, Degeneration | 4 | 2 | | 3 | 4 | 2 | 2 | | 4 | 4 | 4 | 1 | | 2 | 2 | | | | 4 | 4 | 4 | 3 | 1 | 3 | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Myeloid Cell, Hyperplasia | | | | 3 | | | | | | | 3 | | | | | | 4 | | | | 2 | | | | | | |
| Lymph Node | + | | | + | + | + | | | | + | + | + | | | | | | + | + | | | + | + | + | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Renal, Sinus, Dilatation | | | | 4 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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1-4 .. Lesion qualified as:
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|
| | 0729 | 0728 | 0509 | 0728 | 0728 | 0655 | 0701 | 0422 | 0728 | 0728 | 0728 | 0663 | 0505 | 0606 | 0508 | 0708 | 0605 | 0606 | 0702 | 0704 | | | 0608 | 0708 | 0601 | 0509 |
| Sinus, Dilatation | | | | 2 | 3 | | | | 2 | 3 | | | | 3 | 2 | 3 | | | | 2 | | 2 | 2 | | | |
| Lymph Node, Mesenteric
Hyperplasia, Lymphoid
Infiltration Cellular, Histiocyte
Infiltration Cellular, Plasma Cell
Inflammation, Granulomatous
Sinus, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | 1 | 1 | | | | | 2 | | | | | 2 | | | | | | 3 | | | | | | | 2 |
| Spleen
Fibrosis
Hematopoietic Cell Proliferation
Hemorrhage
Hyperplasia, Lymphoid
Necrosis
Pigmentation
Capsule, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 3 | | | 3 | | 1 | 1 | | | 3 | 2 | | | 4 | | | | 4 | | | 4 | | | 3 | | 3 |
| Thymus
Atrophy
Necrosis
Adventitia, Infiltration Cellular,
Polymorphonuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Galactocele
Hemorrhage
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | X | X | X | | | | X | | X | X | | X | | | | | X | | | | | 2 | X |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0729 | 0728 | 0759 | 0778 | 0778 | 0765 | 0771 | 0742 | 0774 | 0774 | 0774 | 0663 | 0655 | 0665 | 0658 | 0778 | 0665 | 0667 | 0677 | 0668 | 0676 | 0665 | 0676 | 0559 | | |
| 0.2 Furan 104 wk | 0021 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation, Chronic Active Alveolus, Dilatation Epithelium, Hyperplasia Lobular, Hyperplasia | 2 | 2 | | 2 | 2 | | | | | | 4 | | | | | | 2 | | 2 | | | | 2 | 2 |
| Skin Abscess | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin Cyst Epithelial Inclusion | | | | | X | | | | | X | | | | | | | | | | | | | | |
| Skin Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin Ear, Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin Ear, Sebaceous Gland, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur Fibrous Osteodystrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem Compression Hemorrhage | 4 | | + | + | | | 2 | | 3 | | | | | | | | | | | | | | | |
| Brain, Cerebellum Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Furan

CAS Number: 110-00-9

Date Report Requested: 06/03/2014

Time Report Requested: 08:42:42

First Dose M/F: 09/07/09 / NA

Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | ANIMAL ID | | | | | | | | | | males
(cont...) | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|---|---|---|---|
| | 0729 | 0728 | 0759 | 0778 | 0778 | 0765 | 0771 | 0742 | 0774 | 0778 | 0003 | 0000 | 0003 | 0003 | 0005 | 0005 | 0005 | 0005 | 0009 | 0009 | | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0012 | 0012 | 0012 | | | | | | | |
| | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|---|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | 1 | | | | | | | | | | | | | 1 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crystals | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | 2 | 1 | | | | | | 2 | 2 | | | | | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinum, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinum, Inflammation, Suppurative | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinum, Necrosis | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleura, Bacterium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleura, Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleura, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleura, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleura, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
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|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | 4 | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | 1 | 1 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | |
| Nephropathy | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 2 | 3 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 4 | 2 | 2 | 2 | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | 1 | | | | | | | | 1 | 1 | 1 | | | | | 2 | | | | | 2 | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | 4 | | | | | | | | | | | | | | | | | | 4 | | | | | | | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
 1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
| | 0715 | 0077 | 0077 | 0077 | 0067 | 0076 | 0066 | 0073 | 0066 | 0077 | 0036 | 0076 | 0066 | 0077 | 0077 | 0056 | 0066 | 0077 | 0067 | 0076 | 0077 | 0067 | 0077 | | |
| ANIMAL ID | 02071 | 00251 | 00251 | 00251 | 00256 | 00277 | 00277 | 00277 | 00233 | 00233 | 00233 | 00233 | 00233 | 00233 | 00233 | 00233 | 00233 | 00233 | 00233 | 00233 | 00233 | 00233 | 00233 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Esophagus Perforation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 4.0 |
| Intestine Large, Cecum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 47 | 1 | 2.0 |
| Intestine Large, Colon Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 | 2.0 |
| Intestine Large, Rectum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 | 2.0 |
| Intestine Small, Duodenum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 | 4 | 2.3 |
| Intestine Small, Ileum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 47 | 1 | 2.0 |
| Intestine Small, Jejunum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 47 | 1 | 2.0 |
| Liver Basophilic Focus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 11 | |
| Cholangiofibrosis | 2 | | | X | 2 | 1 | 2 | 2 | 2 | 1 | | | | X | X | | | X | X | X | | | | 38 | 1.7 | |
| Clear Cell Focus | | | | | | | | | | | | | | X | | | | | | | | | | 1 | | |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Degeneration, Cystic Eosinophilic Focus | 2 | | | | 2 | 2 | | | | 3 | | | | | | | | | | | | 1 | | 8 | 1.6 | |

* .. 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
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 Furan
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| | 0715 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | | 0022 |
| ANIMAL ID | 02071 | 00225 | 00225 | 00225 | 00226 | 00227 | 00227 | 00227 | 00228 | 00228 | 00228 | 00228 | 00229 | 00229 | 00229 | 00229 | 00229 | 00229 | 00229 | 00229 | 00229 | |
| Fibrosis | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Granuloma | | | | | | | | | | | | | | | | | | 1 | | | 1 | 2 1.0 |
| Hyperplasia, Regenerative | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mixed Cell Focus | | | | | | X | | | | | | X | | | | | | X | | | | 5 |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Vacuolization Cytoplasmic | | | | 2 | 2 | | | 4 | | 3 | 3 | 3 | | 4 | | | | | 4 | | | 12 3.0 |
| Bile Duct, Biliary Tract, Hyperplasia | 4 | | 1 | 2 | | 3 | | 2 | | | | 1 | 2 | 2 | 2 | 1 | | | 1 | 3 | | 2 29 2.0 |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Centrilobular, Hepatocyte, Degeneration | | 2 | | | | | 3 | | 4 | | | | | | 2 | | | | | 2 | 4 | 13 2.5 |
| Hepatocyte, Hypertrophy | | | | | | | | | 4 | | | | | | | | | | | | | 1 4.0 |
| Hepatocyte, Necrosis | 1 | | | | | | | | | | | | | | | | | | | | | 6 1.8 |
| Hepatocyte, Periportal, Degeneration | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Oval Cell, Hyperplasia | 3 | | | | | 1 | | 2 | | | | | | | | | | | | 2 | | 7 2.1 |
| Periportal, Vacuolization Cytoplasmic | | | | | | | | | | | 4 | | | | | | | | 3 | | 2 | 4 3.3 |
| Subcapsular, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Subcapsular, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Subcapsular, Pigmentation | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Mesentery | | | | | | + | + | | | + | + | | | | | | + | + | | | + | 14 |
| Fat, Necrosis | | | | | | 4 | 4 | | | 4 | | | | | | | 4 | 4 | | | 4 | 13 3.8 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Lymphocyte | | | | 1 | | | | | | | | | | | | | | | | | | 1 1.0 |
| Acinar Cell, Hyperplasia | | | | 2 | 4 | | | | | 2 | | | | 3 | 4 | | | | 3 | 4 | | 9 3.1 |
| Acinus, Degeneration | 2 | 3 | | | | 2 | | | | 2 | | | | 2 | | | | 1 | 1 | | | 17 1.9 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | | | | | | 2 | | 2 | 4 | 1 | 4 | | | | | | | | 4 | 3 | 1 | 2 15 2.7 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | * TOTALS | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|---|---|
| | 7 | 5 | 0 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 3 | 6 | 7 | 6 | 6 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | | | 7 | |
| | 1 | 2 | 2 | 2 | 2 | 2 | 8 | 0 | 7 | 8 | 2 | 5 | 4 | 2 | 1 | 5 | 0 | 2 | 0 | 2 | 2 | 0 | 7 | | | 2 | 1 |
| | 5 | 6 | 5 | 8 | 9 | 9 | 1 | 4 | 4 | 8 | 4 | 9 | 3 | 8 | 1 | 2 | 9 | 8 | 5 | 6 | 8 | 4 | 4 | 9 | 8 | | |
| | 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 | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| | 0 | 0 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 1 | 1 | 1 | 1 | 2 | 3 | | |
| | 7 | 8 | 7 | 8 | 9 | 0 | 2 | 3 | 3 | 5 | 5 | 6 | 7 | 8 | 7 | 8 | 9 | 9 | 0 | 7 | 8 | 9 | 0 | 1 | 2 | | |
| | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Inflammation, Chronic Active | | | | | | 2 | | | 3 | | 4 | 2 | 3 | | | | | | | 4 | 3 | 1 | | 2 | | 14 | 3.0 |
| Perforation | | | | | | | | | | | 4 | | 4 | | | | | | | 4 | | | | | | 5 | 4.0 |
| Ulcer | | | | | | | | | 2 | | | 2 | | | | | | | | | 2 | | | | | 5 | 2.8 |
| Epithelium, Hyperplasia | | | | | 3 | | | 3 | | 4 | 1 | 3 | 1 | | | | | | | 4 | 2 | 2 | | 3 | | 19 | 2.4 |
| Serosa, Fibrosis | | | | | | | | | | 4 | | | | | | | | | | 4 | | | | | | 3 | 3.7 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Edema | | | | | | | | | | | | | 3 | | | | | | | 3 | | | | | | 3 | 3.0 |
| Inflammation, Chronic Active | | | | | | | | | 2 | | | 2 | | | | | | | | 2 | | | | | | 3 | 2.0 |
| Ulcer | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mucosa, Hyperplasia | | | | | | | | | | | 2 | | | 2 | | | | | | | | | | | | 4 | 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Blood Vessel | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hemorrhage | | | 4 | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 47 | 2.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | 1.0 |
| Thrombosis | | | | | X | X | X | | X | | | | | | X | X | | | | | | | | X | 9 | | |
| Pericardium, Inflammation, Suppurative | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Pericardium, Necrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrosis | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | 1.0 |

* .. 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

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

Experiment Number: 10119 - 01
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----|-----|
| | 0715 | 0022 | 0025 | 0028 | 0029 | 0031 | 0034 | 0037 | 0040 | 0043 | 0046 | 0049 | 0052 | 0055 | 0058 | 0061 | 0064 | 0067 | 0070 | 0073 | 0076 | 0079 | 0082 | 0085 | | | |
| ANIMAL ID | 02071 | 00225 | 00258 | 00281 | 00296 | 00312 | 00327 | 00343 | 00358 | 00374 | 00389 | 00405 | 00420 | 00436 | 00451 | 00467 | 00482 | 00498 | 00513 | 00529 | 00544 | 00560 | 00575 | 00591 | | | |
| Vacuolization Cytoplasmic Capsule, Fibrosis | 2 | 2 | | 2 | 4 | 2 | 3 | 2 | 4 | 3 | 4 | 3 | 2 | | | 3 | 1 | 1 | 2 | 3 | 3 | 4 | 2 | 4 | 4 | 45 | 2.5 |
| Adrenal Medulla Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1.0 |
| Adrenal Medulla Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Adrenal Medulla Hyperplasia | 1 | | | 2 | 2 | 1 | 4 | 2 | 2 | 2 | 4 | | 1 | | | 2 | 2 | 1 | | 1 | 2 | | 2 | 2 | 27 | 2.0 | |
| Adrenal Medulla Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Adrenal Medulla Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1.0 | |
| Parathyroid Gland Hyperplasia | + | + | + | + | + | + | 2 | 1 | + | + | + | + | 1 | 2 | + | + | + | + | + | + | + | 2 | 1 | + | 50 | 1.6 | |
| Pituitary Gland Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 4.0 | |
| Pituitary Gland Pigmentation | | | | | | | | | 4 | | | | | | | | | | | | 4 | | | | 1 | 4.0 | |
| Pituitary Gland Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Pituitary Gland Pars Distalis, Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | 4 | | | | | 7 | 2.3 | |
| Pituitary Gland Pars Distalis, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Pituitary Gland Rathke's Cleft, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1.5 | |
| Thyroid Gland Follicle, Cyst | 1 | | | 2 | 3 | | 1 | 1 | | 2 | 1 | 2 | | | | | | | | 2 | 1 | 1 | 2 | 2 | 29 | 1.5 | |
| | | | | | X | | | | | | | | | | | | | X | | | | X | | | 5 | | |

GENERAL BODY SYSTEM

* .. 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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| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|
| | 0715 | 0022 | 0025 | 0028 | 0029 | 0077 | 0076 | 0076 | 0076 | 0073 | 0066 | 0076 | 0066 | 0066 | 0077 | 0077 | 0055 | 0066 | 0077 | 0066 | | 0077 | 0077 |
| ANIMAL ID | 02071 | 00087 | 00057 | 00058 | 00059 | 00066 | 00077 | 00077 | 00077 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00033 | 00044 | 00044 | 00044 | 00044 | 00044 | 50 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Exfoliated Germ Cell | | 2 | | | | | 2 | 3 | 3 | 2 | | 2 | 1 | 3 | | | | 3 | 2 | 2 | 2 | | 16 2.3 |
| Hypospermia | 4 | | | 4 | 4 | 4 | | 4 | 4 | 4 | | 3 | 2 | 4 | 3 | 2 | 4 | 2 | 2 | 4 | 4 | | 28 3.5 |
| Epithelium, Degeneration | 4 | | | 3 | 3 | 4 | | 4 | 4 | 2 | | 2 | 2 | | | | | 3 | 2 | 3 | | 1 | 25 2.8 |
| Fat, Necrosis | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Abscess | | | | | | | | | | | | | | | 4 | 4 | | | | 4 | | 4 | 7 4.0 |
| Fibrosis | 3 | 2 | | 2 | | 2 | 3 | 3 | | 4 | 3 | 2 | | 3 | | | | 3 | 3 | | 3 | | 24 2.7 |
| Inflammation, Suppurative | | 3 | | 3 | 2 | 4 | 4 | 3 | 4 | | | | 4 | 4 | 4 | 4 | | | 3 | 4 | 4 | | 23 3.5 |
| Inflammation, Chronic Active | 2 | | | | | | | | | 3 | 3 | 2 | | | | | | | | | | 2 | 21 2.3 |
| Acinus, Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | 2 | 6 2.3 |
| Duct, Ectasia | 2 | 3 | | 2 | 4 | 4 | 4 | 2 | 4 | | | | 4 | 4 | 2 | 4 | | | 4 | 4 | | 4 | 33 3.3 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | 2 | | | 3 | | | | | 2 | 2 | | | | | | | | | | 2 | | | 7 2.1 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Fibrosis | | | | | | 4 | | | | | | | | | 4 | | | | | | | | 3 3.7 |
| Inflammation, Suppurative | | | | | 1 | | 1 | 2 | 2 | 2 | 4 | 1 | 1 | 2 | 2 | 4 | 2 | 1 | 3 | 2 | 3 | 3 | 38 1.9 |
| Inflammation, Chronic Active | 3 | | | | 4 | | | | | | | | | | | | | | | | | | 7 2.4 |
| Epithelium, Hyperplasia | | | | | | | | | | | 1 | | | | | | 2 | 1 | | 1 | | | 7 1.6 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | 3 | | 4 | 2 | | 2 | 3 | | | | | 3 | | | | 3 | 2 | 2 | | 18 2.5 |
| Fibrosis | | | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Chronic Active | | | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 071507776766736766775677677677 | 07150777676673676677567766775677677677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | 0715077767667367667756776677567766775677 | | | | |
| FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 Furan 104 wk | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 | 02000 |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 2 2 3 2 11 2.4 | | | |
| Testes | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.6 | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 21 1.4 | | | |
| Seminiferous Tubule, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 40 3.2 | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | | | | | | | | | | | | | | | | | | | | | | | | 49 | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 7 2.7 | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 23 | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 | | | |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.2 | | | |
| Pancreatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.3 | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | | | |
| Lymph Node, Mandibular | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 9 1.8 | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 23 2.2 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
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0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|------|------|----|----|-----|-----|-----|-----|
| | 0715 | 0077 | 0077 | 0077 | 0067 | 0076 | 0066 | 0073 | 0066 | 0077 | 0066 | 0066 | 0077 | 0066 | 0066 | 0077 | 0056 | 0066 | 0077 | 0077 | 0066 | 0077 | 0077 | | | | | | | | | | | | | | | |
| ANIMAL ID | 0207 | 0028 | 0025 | 0022 | 0022 | 0022 | 0028 | 0007 | 0007 | 0008 | 0004 | 0004 | 0008 | 0004 | 0009 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0003 | 0001 | 0002 | 0002 | | | | | | |
| Sinus, Dilatation | 2 | | | | 2 | | 3 | | | 2 | | | 1 | 2 | | | | | | | | | | | | | | | | | | | | 17 | 2.2 | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | | |
| Hyperplasia, Lymphoid | | | | | | 2 | 1 | | | | | | | 2 | 1 | | | | | | | 2 | | 1 | 2 | | | | | | | | | 12 | 1.5 | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | 4 | 2.0 | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Fibrosis | | | | | | | | | | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.0 | |
| Hematopoietic Cell Proliferation | | | | | | | 1 | | | | | | | | | 3 | | 2 | 3 | 2 | 3 | | | 3 | | 2 | | | | | | | | | 16 | 2.4 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Necrosis | | | | | | | | | | | | | | 4 | | | | | | | | | | 4 | | | | | | | | | | | | 4 | 3.8 | |
| Pigmentation | | | | | | | 2 | | 2 | | | | | | | 2 | | 2 | 1 | | | | | | 2 | 3 | 2 | | | | | | | | | 14 | 2.2 | |
| Capsule, Fibrosis | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Atrophy | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 47 | 4.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Adventitia, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Galactocele | X | | | | | X | | | | X | X | | X | X | | X | X | | X | X | | X | X | | X | X | | X | X | X | X | X | X | | 23 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | |

* .. 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

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS | |
|------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|----------|-------|
| | 0715 | 0022 | 0072 | 0077 | 0077 | 0066 | 0077 | 0066 | 0066 | 0077 | 0033 | 0066 | 0077 | 0066 | 0066 | 0077 | 0077 | 0055 | 0066 | 0077 | | | 0066 |
| 0.2 Furan 104 wk | 15 | 26 | 25 | 28 | 29 | 29 | 14 | 44 | 88 | 24 | 33 | 33 | 38 | 11 | 22 | 99 | 88 | 55 | 66 | 88 | 44 | 44 | 00 |
| ANIMAL ID | 02071 | 00057 | 00058 | 00099 | 00091 | 00022 | 00021 | 00033 | 00035 | 00035 | 00037 | 00038 | 00066 | 00078 | 00099 | 00091 | 00022 | 00011 | 00044 | 00044 | 00044 | 00044 | 00044 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Alveolus, Dilatation | | 1 | | 1 | | 1 | 1 | | | | | | 2 | | 1 | | | | | | | | | 14 | 1.6 |
| Epithelium, Hyperplasia | | | | | | | | | | 1 | | | | | 1 | | | 1 | | | | | | 4 | 1.0 |
| Lobular, Hyperplasia | | | | | 4 | | | | | | | | | | | | | 4 | | 1 | | | | 7 | 2.7 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Cyst Epithelial Inclusion | | | | | | | X | X | | | | | | X | | | | | | | | | | 5 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | 4 | | | | | 1 | 4.0 |
| Ear, Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 |
| Ear, Sebaceous Gland, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 | 2.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | 2 | | | | 2 | | | 3 | 4 | | 3 | 2 | 2 | 3 | 2 | | 4 | 3 | 2 | 1 | | | | 20 | 2.7 |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | 1 | | | | | | | 3 | 1.7 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Necrosis | | | | | | | 4 | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
| | 0715 | 0077 | 0077 | 0077 | 0067 | 0076 | 0066 | 0066 | 0073 | 0063 | 0076 | 0066 | 0066 | 0077 | 0077 | 0056 | 0066 | 0077 | 0076 | 0076 | 0076 | 0077 | 0077 | | |
| ANIMAL ID | 02071 | 00258 | 00258 | 00258 | 00256 | 00277 | 00277 | 00275 | 00335 | 00335 | 00335 | 00335 | 00335 | 00336 | 00336 | 00336 | 00336 | 00337 | 00337 | 00337 | 00337 | 00337 | 00337 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-----|-----|-----|
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Ventricle, Dilatation | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | 5 | 1.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Crystals | | | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | 2.0 |
| Hemorrhage | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Infiltration Cellular, Histiocyte | 2 | | | | | | | 2 | | 1 | | | | | 1 | 2 | | | | 1 | | | | 1 | 13 | 1.5 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mediastinum, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 | 3.0 |
| Mediastinum, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | | 3 | 4.0 |
| Mediastinum, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | | 3 | 4.0 |
| Pleura, Bacterium | | | | X | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pleura, Foreign Body | | | | X | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pleura, Hemorrhage | | | | 3 | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pleura, Inflammation, Suppurative | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Pleura, Necrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | |
| Inflammation, Suppurative | | | | | | | | 2 | | 2 | | | | | | | | | | | | | | | | 10 | 1.4 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0715 | 0722 | 0725 | 0728 | 0729 | 0731 | 0734 | 0737 | 0740 | 0744 | 0748 | 0753 | 0757 | 0801 | 0806 | 0810 | 0815 | 0820 | 0825 | 0830 | 0835 | 0840 | 0845 | | 0850 |
| ANIMAL ID | 02071 | 02072 | 02073 | 02074 | 02075 | 02076 | 02077 | 02078 | 02079 | 02080 | 02081 | 02082 | 02083 | 02084 | 02085 | 02086 | 02087 | 02088 | 02089 | 02090 | 02091 | 02092 | 02093 | 02094 | 02095 |
| | 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 |
| | 7 | 5 | 0 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 3 | 6 | 7 | 6 | 6 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 7 | 7 |
| | 1 | 2 | 2 | 2 | 2 | 2 | 8 | 0 | 7 | 8 | 2 | 5 | 4 | 2 | 1 | 5 | 0 | 2 | 0 | 2 | 0 | 7 | 2 | 1 | 1 |
| | 5 | 6 | 5 | 8 | 9 | 9 | 1 | 4 | 4 | 8 | 4 | 9 | 3 | 8 | 1 | 2 | 9 | 8 | 5 | 6 | 8 | 4 | 4 | 9 | 8 |
| | 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 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 0 | 0 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 1 | 1 | 1 | 1 | 2 | 3 |
| | 7 | 8 | 7 | 8 | 9 | 0 | 2 | 3 | 3 | 5 | 5 | 6 | 7 | 8 | 7 | 8 | 9 | 9 | 0 | 7 | 8 | 9 | 9 | 0 | 1 |
| | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Ear | + | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 48 |
| Cataract | | | | | | | | | | | | | | | 3 | | | | | | | | | | 2 |
| Retina, Degeneration | | | | | | | | | | | | | | | 4 | 2 | | | | | | | 3 | | 4 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 |
| Inflammation, Chronic Active | | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 |
| Acinus, Degeneration | | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | X | | | | | | | | | | | | | | | | | | 2 | |
| Hydronephrosis | | | | | | | | | | | 2 | | | | | | | | | | | | 1 | | 8 | |
| Nephropathy | 3 | 1 | | 3 | 4 | 4 | 4 | 4 | 3 | 2 | 4 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 49 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Transitional Epithelium, Hyperplasia | | | | | | 4 | 1 | | | | | | | 1 | 1 | | | | | | | 1 | 1 | | 2 | 14 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic Active | | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 | |
| Lumen, Dilatation | | | | | | | | | | 4 | | | | | | | | | | | | | | | 3 | |
| Serosa, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Transitional Epithelium, Hyperplasia | | | | | | | 4 | | | | | | | | | | | | | | | | | | 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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 Species/Strain: RATS/F 344/NCTR

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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------------|-------|-------|
| | 0540 | 0602 | 0530 | 0537 | 0728 | 0621 | 0422 | 0728 | 0728 | 0728 | 0622 | 0622 | 0721 | 0257 | 0706 | 0716 | 0576 | 0554 | 0663 | 0728 | | | 0728 | 0485 |
| | 00281 | 00211 | 00302 | 00311 | 00312 | 00447 | 00442 | 00441 | 00449 | 00450 | 00451 | 00452 | 00453 | 00454 | 00455 | 00456 | 00457 | 00458 | 00459 | 00460 | 00461 | 00462 | 00463 | 00464 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum
Mucosa, Hyperplasia | + + + A + + A + + A + + + + + + A + + + + + A | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + + + A + + A + + A + + A + + + + + + A + + + + + A | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum
Mucosa, Hyperplasia | + + + A + + + + + A + + A + + + + + + A + + + + + A | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum
Inflammation, Suppurative
Necrosis
Mucosa, Hyperplasia | + + + A + + A + + A + + A + + + + + + A + + + + + A | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + + + A + + A + + A + + A + + + + + + A + + + + + A | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + + + A + + A + + A + + A + + + + + + A + + + + + A | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + A | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | |
| Cholangiofibrosis | 3 2 1 2 3 2 2 3 3 3 2 3 1 3 4 2 3 3 3 3 3 3 2 3 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | 2 1 3 2 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | |
| Granuloma | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Regenerative
Inflammation, Suppurative | X | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0540 | 0602 | 0530 | 0537 | 0728 | 0622 | 0422 | 0728 | 0088 | 0778 | 0669 | 0669 | 0721 | 0295 | 0708 | 0661 | 0716 | 0574 | 0557 | 0663 | | | 0728 | 0728 | 0485 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | X | | | | | X | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 4 | 4 | | | | | | | | 2 | 2 | 3 | | 2 | 2 | 3 | | 4 | | | | | 4 | 3 | |
| Bile Duct, Biliary Tract, Hyperplasia | | 3 | | | 4 | | | | | 2 | | 4 | 2 | 1 | | | | 4 | | 4 | | 2 | 4 | 1 | |
| Centrilobular, Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | 3 | | | | | 3 | | | |
| Centrilobular, Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Oval Cell, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Periportal, Cytoplasmic Alteration | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Periportal, Vacuolization Cytoplasmic | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | | |
| Subcapsular, Inflammation, Chronic | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Mesentery | + | | | | | | + | | | | | | | | | | | | + | | | | + | | |
| Fat, Necrosis | | | | | | | 3 | | | | | | | | | | | | 4 | | | | 4 | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gingival, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | 1 | | | | | | | | | | 2 | | 3 | | | | | | 4 | | 4 | |
| Acinus, Degeneration | | 2 | | | | | 3 | 2 | | | | | 3 | | | | | | | | | 4 | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Edema | | 2 | | | 4 | | | | | | | | 2 | | | 4 | | 4 | | | | | 2 | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0540 | 0602 | 0530 | 0537 | 0728 | 0641 | 0478 | 0778 | 0776 | 0662 | 0726 | 0216 | 0296 | 0528 | 0708 | 0661 | 0776 | 0554 | 0567 | 0672 | 0728 | 0728 | 0485 | 0729 | | | 0478 |
| | 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 | 00281 | |
| | 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 | 00282 | |
| | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 8 | 8 | 1 | 7 | 7 | 7 | 7 | 7 | 8 | 9 | 9 | 9 | 283 | |
| | 8 | 9 | 0 | 1 | 1 | 7 | 8 | 9 | 9 | 0 | 2 | 3 | 4 | 5 | 5 | 2 | 0 | 1 | 1 | 1 | 2 | 3 | 9 | 0 | 1 | 184 | |
| | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 185 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation, Chronic Active Perforation | 1 | | | 4 | | | | | | | 2 | | | 2 | | | 4 | | | 1 | | | | | | |
| Ulcer Epithelium, Hyperplasia | | | | | 4 | | | | | | 2 | | | 3 | | | | | | | | | 1 | | 1 | 1 |
| Stomach, Glandular Edema | + | + | + | A | + | + | A | + | + | A | + | + | A | + | + | + | + | + | A | + | + | + | + | + | A | |
| Inflammation, Chronic Active Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer Mucosa, Hyperplasia | | | | | | 3 | | | | | | | | | | | 2 | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | | 2 | 2 | 1 | 2 | 2 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Ventricle, Dilatation | | | | | | | | | | | | | | | | | 3 | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | 2 | | | | | | | | 2 | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 4 | 2 | 2 | | 2 | 1 | | 2 | 3 | 3 | 2 | | | 2 | 3 | 2 | 1 | 2 | | | 2 | | | 2 | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | 0 |
| | 5 | 6 | 5 | 5 | 7 | 6 | 4 | 7 | 7 | 6 | 6 | 7 | 2 | 5 | 7 | 6 | 7 | 5 | 5 | 6 | 7 | 7 | 4 | 7 | 4 | |
| | 4 | 0 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 1 | 9 | 5 | 0 | 6 | 1 | 7 | 4 | 7 | 2 | 2 | 8 | 2 | 9 | |
| | 0 | 2 | 0 | 7 | 8 | 1 | 7 | 8 | 8 | 9 | 6 | 6 | 6 | 7 | 8 | 1 | 6 | 6 | 0 | 3 | 8 | 8 | 5 | 9 | 8 | |
| | 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 | |
| | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 8 | 8 | 1 | 7 | 7 | 7 | 7 | 7 | 8 | 9 | 9 | 9 | |
| | 8 | 9 | 0 | 1 | 1 | 1 | 7 | 8 | 9 | 9 | 0 | 2 | 3 | 4 | 5 | 5 | 2 | 0 | 1 | 1 | 2 | 3 | 9 | 0 | 1 | 1 |
| | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | |
| Adrenal Medulla
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland
Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | |
| Pars Distalis, Cyst | | | 4 | 4 | | | | | | | | | | | | | | | | | | | | 4 | | |
| Pars Distalis, Hyperplasia | 2 | | | | X | | | | | | | | X | | | | | | | | | | | 2 | | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | |
| Follicle, Cyst | | | 1 | | | 1 | | | 3 | | 1 | 2 | | 1 | 1 | | 1 | | 1 | 1 | 3 | 1 | | | | |

GENERAL BODY SYSTEM

Peritoneum

GENITAL SYSTEM

Epididymis

Exfoliated Germ Cell

Fibrosis

Hypospermia

Epithelium, Degeneration

Preputial Gland

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 2 | | | | | | 2 | 3 | | | | | 2 | 1 | | | 4 | | | 2 | | | |
| | 2 | | 3 | | 4 | | 4 | 4 | 2 | | | 4 | | | | 4 | | 3 | 4 | 2 | 4 | 3 | 4 | | |
| | | | | | 3 | | | | | | 1 | | | | 2 | | 3 | | 3 | | 2 | 3 | 4 | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |

* .. 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

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|--------------------|---|---|---|---|---|---|---|---|---|---|---|
| | 0
5
4
0 | 0
6
0
2 | 0
5
3
0 | 0
5
3
7 | 0
7
2
8 | 0
6
2
1 | 0
4
2
7 | 0
7
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8 | 0
7
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8 | 0
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7
2
9 | 0
6
2
9 | 0
6
1
6 | 0
7
2
5 | 0
6
1
8 | 0
7
6
1 | 0
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7
6 | 0
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4
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6
7
3 | 0
7
2
8 | 0
7
2
8 | 0
4
8
5 | 0
7
2
9 | 0
4
2
9 | | | | | | | | | | | | | | |
| | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 8 | 8 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 8 | 9 | 0 | 1 | 1 | 1 | 7 | 8 | 9 | 9 | 9 | 0 | 2 | 3 | 4 | 5 | 5 | 2 | 0 | 1 | 1 | 2 | 3 | 9 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abscess | | | | | 4 | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Fibrosis | | 2 | | | | | | | 2 | | | 4 | 4 | | | | 2 | 2 | 2 | | | | 3 | 3 | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 4 | | | | 4 | 1 | 3 | | | | | | | | | 2 | 4 | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | 4 | 2 | 2 | | | | | 2 | 1 | 3 | 2 | 4 | 1 | 2 | | | | 4 | 2 | 3 | | | 4 | 3 | 2 | 3 | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| Duct, Ectasia | 2 | | | | 4 | 3 | 3 | | | | 3 | | | | | | | 3 | 4 | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | 4 | | |
| Degeneration, Cystic | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 4 | 3 | 2 | 3 | 4 | 1 | | 2 | 2 | 2 | 1 | | | | 2 | 2 | 3 | 2 | | | | 2 | | 1 | | 2 | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | 2 | | | | | | 4 | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 | | |
| Epithelium, Hyperplasia | | | | | | | | | | 3 | | | | | | 2 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | | | |
| Atrophy | | | | | 2 | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Adventitia, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2 | 3 | 3 |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | | |
| Polyarteritis | | | | | 2 | | | | | | 2 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Interstitial Cell, Hyperplasia | 1 | | 2 | | | 1 | 1 | 1 | 1 | | | | | | 1 | | | | | | 1 | 1 | 2 | | 1 | 1 | | | | | | | | | | | | | | 1 | | | |
| Seminiferous Tubule, Degeneration | | | | | 4 | 4 | 1 | 4 | 4 | 3 | 3 | 1 | 4 | | | | | 2 | | | | 4 | | | 4 | 4 | 3 | 4 | 2 | 4 | | | | | | | | | | | 4 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | 3 | | | | | | | | | | 3 | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|---|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------------|--|
| | 0540 | 0602 | 0530 | 0537 | 0722 | 0641 | 0478 | 0778 | 0778 | 0669 | 0666 | 0721 | 0255 | 0776 | 0671 | 0757 | 0544 | 0557 | 0663 | 0728 | 0728 | 0485 | 0749 | 0478 | | | |
| 0.44 Furan 104wk | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | 00281 | |
| Lymph Node | | | + | | + | + | | | | | | | | | + | | | | | | | + | + | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | 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 | males
(cont...) | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|
| | 5 | 6 | 5 | 5 | 7 | 6 | 4 | 7 | 7 | 6 | 6 | 7 | 2 | 5 | 7 | 6 | 7 | 5 | 5 | 6 | 7 | 7 | 4 | 7 | | | 4 |
| | 4 | 0 | 0 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 1 | 9 | 5 | 0 | 6 | 1 | 7 | 4 | 7 | 2 | 2 | 8 | 8 | | |
| | 0 | 2 | 0 | 0 | 7 | 8 | 1 | 7 | 8 | 8 | 9 | 6 | 6 | 7 | 8 | 1 | 6 | 6 | 0 | 3 | 8 | 8 | 5 | 9 | 8 | | |
| | 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 | | |
| | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 8 | 8 | 1 | 7 | 7 | 7 | 7 | 7 | 8 | 9 | 9 | 9 | | |
| | 8 | 9 | 0 | 1 | 1 | 7 | 8 | 9 | 9 | 0 | 2 | 3 | 4 | 5 | 5 | 2 | 1 | 1 | 1 | 2 | 3 | 9 | 0 | 1 | 1 | | |
| | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | 4 | | | | | 4 | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | 2 | 3 | | | | 4 | | 2 | | | | | | | | | 1 | | | 2 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Pigmentation | | | 3 | | | | | | | 2 | | 3 | 4 | | 2 | 3 | 3 | | | 2 | | 2 | 1 | 3 | 3 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | | |
| Atrophy | | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Galactocele | | X | | X | | X | | | X | | X | X | | X | X | X | | | | X | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | |
| Alveolus, Dilatation | | | | | 3 | | | | | 3 | | | | | | | 4 | 2 | | 3 | 1 | | 3 | | | | |
| Epithelium, Hyperplasia | | | | | | 2 | | | 1 | | | 2 | | | | | | | | | | | | | | | |
| Lobular, Hyperplasia | | | | | 2 | | | | | | | | | | | | 2 | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Abscess | | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Foreign Body | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Ear, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear, Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0540 | 0602 | 0530 | 0537 | 0722 | 0622 | 0472 | 0778 | 0778 | 0669 | 0666 | 0721 | 0295 | 0708 | 0661 | 0776 | 0554 | 0556 | 0673 | 0778 | | | 0485 | 0729 | 0478 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0028 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0021 | |
| | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 8 | 8 | 1 | 7 | 7 | 7 | 7 | 8 | 9 | 9 | 0031 | |
| | 8 | 9 | 0 | 1 | 1 | 7 | 8 | 9 | 9 | 0 | 2 | 3 | 4 | 5 | 5 | 2 | 1 | 1 | 1 | 2 | 3 | 9 | 0 | 0012 | |
| | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 0011 | |

Skeletal Muscle

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | 4 | 4 | 2 | | 3 | 4 | | 3 | | 4 | | 3 | | 3 | 4 | 2 | 4 | | | 3 | 2 | |
| Hemorrhage | | 1 | 3 | 2 | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | 1 | 2 | 2 | | | | | | | | | | | | | | | | | | | |
| Ventricle, Dilatation | | 1 | 1 | | | | | | | | 2 | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | 1 | | | | | | | | | | | | | | | | 2 | | | 2 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Foreign Body | | | | | | | | | | X | | | | | X | | | X | | | | | |
| Inflammation, Suppurative | | 3 | | 2 | | | | | | 2 | | | | 1 | | | 2 | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Erosion | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Furan

CAS Number: 110-00-9

Date Report Requested: 06/03/2014

Time Report Requested: 08:42:42

First Dose M/F: 09/07/09 / NA

Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | | | | |
|--|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|---|---|---|--|---|
| FISCHER 344 RATS-NCTR 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 | | | | | | |
| | 0.44 Furan 104wk | 5 | 6 | 5 | 5 | 7 | 6 | 4 | 7 | 7 | 6 | 6 | 7 | 2 | 5 | 7 | 6 | 7 | 5 | 5 | 6 | 6 | 7 | 7 | 4 | | 7 | 4 | | | |
| | | 4 | 0 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 1 | 9 | 5 | 0 | 6 | 1 | 7 | 4 | 7 | 2 | 2 | 2 | 8 | 2 | 9 | | | |
| | | 0 | 2 | 0 | 7 | 8 | 1 | 7 | 8 | 8 | 9 | 6 | 6 | 7 | 8 | 8 | 1 | 6 | 6 | 0 | 3 | 8 | 8 | 5 | 8 | 2 | 9 | | | | |
| | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| | | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 8 | 8 | 8 | 8 | 8 | 1 | 7 | 7 | 7 | 7 | 7 | 8 | 9 | 9 | 9 | 9 | | | | |
| | | 8 | 9 | 0 | 1 | 1 | 1 | 7 | 8 | 9 | 9 | 0 | 2 | 3 | 4 | 5 | 5 | 2 | 0 | 1 | 1 | 2 | 3 | 9 | 0 | 1 | 1 | | | | 1 |
| | | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | A | + | + | + | + | + | A | + | + | A | + | + | + | + | A | + | + | + | + | + | + | A | | |
| Cataract | | | | | | | | | | | | | | | | | | 1 | 2 | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | 2 | | | | | | | | | 4 | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | + | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Cyst | | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 3 | 4 | 3 | 2 | 4 | 3 | 2 | 2 | 4 | 3 | 3 | 4 | 1 | 4 | 4 | 4 | 4 | 3 | 2 | 2 | 4 | 3 | 3 | 4 | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | 4 | | | | | | | | | 1 | | | 2 | | | | | | 1 | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Lumen, Dilatation | | | | 3 | 4 | | 4 | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

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M .. Missing tissue

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 Furan
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 078 | 078 | 072 | 070 | 072 | 058 | 073 | 069 | 078 | 075 | 063 | 078 | 041 | 078 | 056 | 057 | 079 | 041 | 065 | 063 | | 050 | 058 | 071 |
| ANIMAL ID | 01921 | 02241 | 02242 | 02252 | 02262 | 02271 | 02272 | 02261 | 02262 | 02242 | 02241 | 02233 | 02233 | 02233 | 02233 | 02233 | 02233 | 02233 | 02233 | 02233 | 02233 | 02233 | 02233 | 02234 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Intestine Large, Rectum
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Duodenum
Inflammation, Suppurative
Necrosis
Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| Cholangiofibrosis | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 4 | 1 | 4 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 4 |
| Degeneration, Cystic | | | | | | | 1 | 2 | | | 3 | | 2 | | | | | 1 | | | | | 2 | | 11 1.8 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Granuloma | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 7 1.7 |
| Hyperplasia, Regenerative | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |

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| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|
| | 078 | 078 | 072 | 070 | 072 | 058 | 073 | 069 | 078 | 075 | 063 | 078 | 074 | 072 | 056 | 057 | 079 | 041 | 065 | 053 | | 050 | 057 | 070 | 070 | |
| ANIMAL ID | 019221 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Pigmentation | | | | 4 | | | | | 4 | | | | | | | | | | | | | | 3 | | 3 3.7 | |
| Vacuolization Cytoplasmic | | | | | | | | 2 | | 4 | 2 | | 2 | | | | | | | 4 | | 3 | 4 | | 18 3.0 | |
| Bile Duct, Biliary Tract, Hyperplasia | 2 | 3 | | 4 | | | 4 | 4 | 4 | | | 4 | | 2 | | | | 4 | 2 | | 2 | 1 | 1 | 4 | 25 2.9 | |
| Centrilobular, Hepatocyte, Degeneration | | | | 4 | | 2 | 4 | | | | 4 | | | | | | | | 2 | | 4 | | 3 | 2 | 4 | 11 3.2 |
| Centrilobular, Hepatocyte, Necrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Hepatocyte, Hypertrophy | | | | | | | | | 3 | | | | | | | | | | | | | 2 | | | 2 2.5 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 2.0 | |
| Oval Cell, Hyperplasia | | | | 4 | | | 2 | | | | | | | | | | 3 | | | | | | 3 | | 6 2.7 | |
| Periportal, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Periportal, Vacuolization Cytoplasmic | | | | 4 | | | 2 | | | | | | | 2 | | 1 | | 2 | | | | | | | 7 2.1 | |
| Subcapsular, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 8 | |
| Fat, Necrosis | | | | | | | | | 4 | | | | 4 | | 3 | | 4 | | | | | | | | 7 3.7 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Gingival, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 7 2.4 | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 11 2.3 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 12 2.8 | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0728 | 0728 | 0722 | 0720 | 0722 | 0725 | 0728 | 0726 | 0727 | 0727 | 0726 | 0724 | 0727 | 0725 | 0725 | 0727 | 0724 | 0726 | 0725 | 0726 | | 0725 | 0725 | 0727 |
| ANIMAL ID | 01921 | 02241 | 02244 | 02254 | 02266 | 02277 | 02281 | 02291 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|--|
| Inflammation, Chronic Active Perforation | | | 3 | 2 | | | 3 | | 2 | | | | 2 | | | 3 | 1 | 3 | | 3 | | | | | 15 2.4 | |
| Ulcer Epithelium, Hyperplasia | | | 4 | | | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| | | | | 2 | | | 4 | | 2 | | | | | | | 4 | | 4 | | 3 | | | | | 9 3.1 | |
| | | | 3 | 2 | | | 2 | | 2 | | | | 3 | | | 2 | | 3 | 2 | | 3 | | | | 17 2.4 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | |
| Edema | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Chronic Active | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Necrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Ulcer | | | | 2 | | | 2 | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Mucosa, Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | 3 2.3 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | | | 1 | 2 | 2 | 2 | 3 | 3 | 46 1.9 |
| Mineralization | | | | | | | | | | | | | | | | | | | | 4 | | | | | | 1 4.0 |
| Thrombosis | | X | | X | | | X | | X | | | | X | | | | | | | | | | | X | | 7 |
| Ventricle, Dilatation | | | | | | | 4 | | | | | | | | | | | | | | | | | | | 2 3.5 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|--------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Cyst | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hyperplasia | | | 4 | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Hypertrophy | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |
| Vacuolization Cytoplasmic | 2 | | 3 | 2 | | 1 | 2 | 3 | | 3 | | 2 | 3 | 2 | | 1 | 3 | | 4 | 2 | 2 | 2 | 3 | 4 | 34 2.3 | |

* .. 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
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 Furan
 CAS Number: 110-00-9

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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|
| | 078 | 078 | 072 | 070 | 072 | 058 | 073 | 069 | 078 | 075 | 063 | 078 | 074 | 072 | 056 | 057 | 079 | 041 | 065 | 053 | | 065 | 050 | 058 | 071 | 070 |
| ANIMAL ID | 019221 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | 022442 | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | 1 | 3 | | | 4 | 1 | 1 | | | | | 1 | | | | 2 | 2 | | 2 | | | 2 | 2 | | 18 2.1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Parathyroid Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| | | | | | | | | | | | | | | | | 1 | | | | | | | 2 | | 5 1.6 | |
| Pituitary Gland Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | X | | 3 4.0 | |
| Pars Distalis, Hyperplasia | | | | | | 3 | 2 | | | | 2 | 4 | | | 2 | | | | 4 | 2 | | | 2 | | 11 2.6 | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Follicle, Cyst | 1 | 1 | | | 2 | 1 | 1 | 1 | | 1 | 1 | | | 2 | 1 | | | | | 1 | 2 | 3 | 3 | 2 | 1 | 28 1.5 |
| | | | | | | | | | | | | | X | | | | | | | | | | | | 1 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | + | | | | | | | | | | | | | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Exfoliated Germ Cell | 3 | 2 | | | | | | | | | | | 2 | | | 2 | | | | 2 | | 2 | 1 | 4 | 15 2.3 | |
| Fibrosis | | | | | | 3 | | | | | | | | | | | | | | | | | 4 | | 2 3.5 | |
| Hypospermia | 3 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | | | | 4 | 4 | | 4 | 4 | 4 | | 4 | 4 | 3 | 4 | 4 | 32 3.7 | |
| Epithelium, Degeneration | | | 4 | 4 | 3 | 4 | | | | | | | | 3 | 2 | | 4 | 3 | 4 | | 3 | | | 2 | 4 | 20 3.1 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 Furan
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 078 | 078 | 072 | 070 | 072 | 058 | 073 | 069 | 078 | 075 | 063 | 078 | 041 | 078 | 056 | 057 | 079 | 041 | 065 | 063 | | 050 | 058 | 075 |
| ANIMAL ID | 01921 | 02241 | 02244 | 02252 | 02266 | 02271 | 02277 | 02281 | 02286 | 02291 | 02296 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 | 02303 |
| Abscess | 4 | | | | | | | 4 | | | 4 | | | | | 4 | 4 | | | 4 | | | | |
| Fibrosis | 3 | | | 3 | | 2 | 3 | | | | 2 | | | 2 | 2 | | 2 | 2 | 2 | | 2 | 2 | 3 | 3 |
| Inflammation, Suppurative | | | | | 3 | | | | | | | | | 4 | | | 4 | | 4 | | | 2 | | 2 |
| Inflammation, Chronic Active | 3 | 3 | 3 | 2 | | 2 | 3 | | 3 | | | 4 | | | 2 | 2 | | 3 | | 2 | | | 3 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Duct, Ectasia | | | 3 | | 3 | | 3 | 4 | | | | 4 | 2 | 4 | | 3 | 4 | 4 | 4 | | 3 | | | 2 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Atrophy | | | | 2 | 3 | | 3 | | | | | | | | 3 | 2 | | 3 | 3 | 2 | | | 2 | 12 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fibrosis | | | 4 | | | | | | | | | | | | | | | 4 | 4 | 4 | | | | 4 |
| Inflammation, Suppurative | 2 | 2 | 4 | 2 | | 1 | 1 | 1 | | 3 | | 2 | 2 | | 4 | | 1 | | 2 | 4 | 4 | 4 | 1 | 2 |
| Inflammation, Chronic Active | | | | | | | | | | | 2 | | | | | | | | | | | | | 6 |
| Epithelium, Hyperplasia | 3 | | | | | 2 | | 2 | | | | | | | | 1 | 1 | | | | | 1 | | 12 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Atrophy | | | 2 | 2 | 3 | | 4 | | 4 | 2 | | | | 4 | 3 | | 3 | 3 | 3 | | 3 | | 3 | 2 |
| Adventitia, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | 4 | | | 1 |
| Lumen, Dilatation | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Polyarteritis | | | 1 | | | | | | | | | | | 2 | | | 1 | | | | | 2 | | 9 |
| Interstitial Cell, Hyperplasia | | | 2 | | | | | 2 | | | | | 1 | | 1 | 2 | | 2 | | | 1 | | 2 | 22 |
| Seminiferous Tubule, Degeneration | 4 | 4 | 4 | 4 | 4 | | 4 | 1 | 4 | 4 | 2 | 2 | | 4 | 4 | | 4 | 4 | 4 | 2 | 4 | 4 | 3 | 4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Fibrosis | | | | | | | | | | | | | | | | | | 2 | | | | | | 1 |
| Myeloid Cell, Hyperplasia | 2 | | | | | 3 | | | 2 | | | | 3 | 3 | | | | | 3 | | 4 | 4 | | 12 |

* .. 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
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| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------|--------|
| | 0
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9 | 0
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8 | 0
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3 | 0
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9 | 0
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8 | 0
7
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5 | 0
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3 | 0
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8 | 0
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1 | 0
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8 | 0
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7 | 0
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9 | 0
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1 | 0
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5 | 0
5
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3 | | 0
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3 | 0
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0 | 0
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5 | 0
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8 | 0
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5 | | |
| ANIMAL ID | 0
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6
1 | 0
2
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7
2 | 0
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1 | 0
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2 | 0
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2 | 0
3
5
7
2 | 0
3
5
7
2 | | |
| Lymph Node | + | + | | | | | + | + | | + | + | | | | + | + | + | | | | + | + | + | + | + | + | 20 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hepatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hepatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2 | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 | |
| Renal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 1.8 | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 17 2.2 | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 2.3 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 1.8 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

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| | 078 | 078 | 072 | 070 | 072 | 058 | 073 | 069 | 078 | 075 | 063 | 078 | 041 | 078 | 056 | 054 | 079 | 041 | 065 | 053 | | 050 | 075 |
| ANIMAL ID | 01921 | 02244 | 02244 | 02256 | 02267 | 02271 | 02277 | 02281 | 02286 | 02333 | 02333 | 02333 | 02333 | 02333 | 02333 | 02333 | 02333 | 02333 | 02333 | 02333 | 02333 | 02333 | 02333 |

| | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Atrophy | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Fibrosis | 2 | | | | | | | | | | | | | | | | | | | | 5 3.2 |
| Hematopoietic Cell Proliferation | 4 2 2 2 4 2 | | | | | | | | | | | | | | | | | | | | 13 2.5 |
| Necrosis | 1 | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pigmentation | 4 2 3 1 4 3 | | | | | | | | | | | | | | | | | | | | 18 2.7 |
| Thymus | + + + + M + | | | | | | | | | | | | | | | | | | | | 48 |
| Atrophy | 4 4 4 4 4 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | | | | | | | | | | | | | | 45 4.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | 50 |
| Abscess | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Galactocele | X X X X X X X X X X | | | | | | | | | | | | | | | | | | | | 21 |
| Inflammation, Granulomatous | 4 | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Alveolus, Dilatation | 3 | | | | | | | | | | | | | | | | | | | | 10 2.8 |
| Epithelium, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Lobular, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | 4 2.0 |
| Skin | + | | | | | | | | | | | | | | | | | | | | 50 |
| Abscess | 2 | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Cyst Epithelial Inclusion | X X | | | | | | | | | | | | | | | | | | | | 3 |
| Foreign Body | 1 | | | | | | | | | | | | | | | | | | | | 1 |
| Ear, Fibrosis | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Ear, Epithelium, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Bone, Femur | + | | | | | | | | | | | | | | | | | | | | 50 |
|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 078 | 078 | 072 | 070 | 072 | 058 | 073 | 069 | 077 | 068 | 075 | 063 | 078 | 041 | 078 | 056 | 054 | 072 | 049 | 067 | | 053 | 065 | 050 | 058 |
| ANIMAL ID | 01921 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 |

Skeletal Muscle + 1

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | 2 | | | | | | | | | | | 2 | | | 3 | | | 4 | | 2 | 4 | | | 2 | | 21 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 4 2.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Ventricle, Dilatation | | | | | | | | | | | | | | | 1 | | | 2 | | | | 1 | | | | 6 1.3 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Infiltration Cellular, Histiocyte | | | 1 | | | | | | | 3 | | 1 | 1 | | | | 1 | 4 | | | 1 | 1 | 1 | | 1 | 13 1.5 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 1.5 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Foreign Body | | | | | | X | | | X | | | | | | | | | | | | | | | | | 5 |
| Inflammation, Suppurative | | | | | | 2 | | | 1 | | | | | | | | | | | | | | | | | 7 1.9 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Suppurative | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Epithelium, Erosion | | | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 |

* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS MALE
0.44 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 078 | 078 | 072 | 070 | 072 | 058 | 073 | 076 | 077 | 068 | 077 | 066 | 074 | 077 | 055 | 057 | 079 | 049 | 067 | 055 | | 057 | 077 |
| ANIMAL ID | 01921 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 | 02222 |
| | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Cataract | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | 4 1.5 |
| Retina, Degeneration | | | | | | | | | | | | 2 | | 2 | 2 | | | | | | | | | 5 2.4 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Infiltration Cellular, Lymphocyte | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 1.0 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | X | | 2 |
| Hydronephrosis | | | | | | | 1 | | | | | | | | | | | | | | | 1 | 2 | 5 1.4 |
| Inflammation, Suppurative | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 1.0 |
| Nephropathy | 4 | 4 | 4 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 4 | 2 | 3 | 4 | 2 | 4 | 2 | 4 | 4 | 2 | 4 | 3 | 49 3.1 |
| Pigmentation | | | | | | | | | 4 | | | | | | | | | | | | | | | 1 4.0 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 2.5 |
| Transitional Epithelium, Hyperplasia | | | 1 | | 1 | | | | | | | | | 1 | | | | | | | | 3 | 2 | 9 1.8 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Lumen, Dilatation | | | 3 | | | | | | | | | | | | | | | | | | | | | 4 3.5 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 2.0 |

* .. 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
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 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|------------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------------|-----------------|
| | 0626 | 0729 | 0577 | 0728 | 0542 | 0650 | 0479 | 0760 | 0629 | 0512 | 0786 | 0658 | 0520 | 0780 | 0631 | 0547 | 0787 | 0656 | 0526 | 0799 | 0670 | 0539 | 0769 | 0648 | | |
| 0.92 Furan 104wk | 0012 | 0022 | 0033 | 0044 | 0055 | 0066 | 0077 | 0088 | 0099 | 0000 | 0011 | 0022 | 0033 | 0044 | 0055 | 0066 | 0077 | 0088 | 0099 | 0000 | 0011 | 0022 | 0033 | 0044 | 001122334455667788990011223344 | males (cont...) |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Inflammation, Chronic Active
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | X | | | | | X | | | | | | | | X | X | | X | | |
| Cholangiofibrosis | 4 | 4 | 3 | 3 | 2 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 4 | 2 |
| Clear Cell Focus | | | | | X | | | | | | | X | X | | | | | X | | | | | | |
| Deformity | | | | | | | | | | | | | | X | | | | | | | | | | |
| Degeneration, Cystic | | | | | | 2 | | | | | | | | | | | 1 | | | | | 1 | 2 | |
| Eosinophilic Focus | | | | | | | | | | | X | | | | | | | | | | | | | |
| Granuloma | 1 | | 1 | 2 | | | 2 | 2 | | | | X | | 1 | 1 | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Hyperplasia, Regenerative | | | | | | | 3 | | 4 | | | | | | | | | | | | | | | 3 |

* .. 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
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | |
|-------------|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|-----------------|----|
| | 06 | 07 | 05 | 07 | 05 | 06 | 04 | 07 | 06 | 05 | 07 | 06 | 05 | 06 | 07 | 06 | 05 | 07 | 06 | 05 | | | 07 |
| 02 | 02 | 07 | 02 | 04 | 05 | 07 | 02 | 01 | 01 | 02 | 00 | 02 | 02 | 03 | 02 | 00 | 02 | 07 | 06 | 02 | 01 | 03 | 08 |
| 06 | 09 | 07 | 08 | 02 | 00 | 07 | 09 | 00 | 02 | 08 | 06 | 08 | 00 | 08 | 01 | 04 | 07 | 08 | 07 | 06 | 09 | 00 | 04 |
| 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 01 | 01 | 01 | 01 | 01 | 06 | 06 | 06 | 07 | 07 | 07 | 07 | 08 | 08 | 00 | 08 | 08 | 08 | 08 | 08 | 02 | 02 | 02 | 02 |
| 02 | 02 | 03 | 04 | 05 | 07 | 08 | 09 | 00 | 08 | 09 | 00 | 01 | 06 | 05 | 06 | 07 | 08 | 08 | 00 | 01 | 02 | 02 | 03 |
| 01 | 02 | 02 | 02 | 01 | 01 | 01 | 01 | 02 | 01 | 01 | 02 | 01 | 01 | 01 | 01 | 02 | 01 | 02 | 01 | 01 | 01 | 02 | 02 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | 2 | | | 4 | 3 | | | | | 2 | | | | | | | 3 | | |
| Inflammation, Chronic Active | | | | | 1 | | | 3 | 1 | | | | | 2 | | | | | | | 4 | 3 | 1 |
| Necrosis | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Ulcer | | | | | | | | 4 | | | | | | 3 | | | | | | | | 4 | |
| Epithelium, Hyperplasia | | | | | | | | 2 | 1 | | | | | 2 | 1 | | | | | | 4 | 2 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mineralization | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | | 3 | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 1 | 2 | 3 | 3 | 4 | 2 | 2 | | 1 | 3 | 2 | 1 | 3 | 4 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | X | X | | | | | | | | X | X | | | | | X | X | | | |
| Pericardium, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
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 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0626 | 0729 | 0577 | 0728 | 0542 | 0650 | 0477 | 0769 | 0610 | 0552 | 0721 | 0612 | 0568 | 0700 | 0678 | 0560 | 0778 | 0577 | 0666 | 0729 | 0710 | 0679 | 0568 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0011 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0012 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0013 | |
| | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 8 | 9 | 0 | 1 | 6 | 5 | 6 | 7 | 8 | 8 | 2 | 0 | 1 | 2 | 0014 | |
| | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 0015 | |

Pericardium, Necrosis

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule Hypertrophy | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Vacuolization Cytoplasmic | 1 | | | | 2 | 1 | 1 | 2 | 3 | | | 2 | 3 | 3 | 4 | | 2 | 2 | | | | 3 | 4 | 2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | 1 | | | | | | 3 | | 3 | 2 | | 4 | | 2 | 2 | 1 | 4 | 1 | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | 4 | | | | | | | | | | | | | | | | 1 | 2 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Cyst | | | | | | | | | | | | X | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | 2 | | 1 | 4 | | 3 | | | 1 | | | | | | | 2 | | | | 1 | | |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | 2 | | 1 | 2 | | | | | 1 | 1 | | | | 1 | 1 | | | | 1 | 2 | | 1 | 2 | 2 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
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1 | 0
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2 | 0
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2 | 0
2
2
2
3 | 0
2
2
2
2 |

Peritoneum

+

Tissue NOS

- Necrosis
- Mediastinum, Bacterium
- Mediastinum, Foreign Body
- Mediastinum, Hemorrhage
- Mediastinum, Inflammation, Suppurative
- Mediastinum, Inflammation, Chronic
- Mediastinum, Necrosis

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Exfoliated Germ Cell | | | | | | | | | | 2 | | | 2 | 4 | 2 | 1 | 2 | | | 2 | 3 | | | | | | |
| Hypospermia | | 4 | | 4 | | 4 | | 4 | 3 | | 4 | | 3 | 4 | | | | | 4 | | 3 | 4 | 4 | | | | |
| Epithelium, Degeneration | | 3 | | | | 2 | | | 2 | | 4 | | 2 | 4 | 2 | | 2 | | 2 | | 3 | | 2 | 2 | | | |
| Mesothelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | 4 | | | | 3 | 3 | 2 | 3 | | 3 | | 3 | 2 | 3 | 2 | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 4 | | | 4 | 4 | 4 | | 4 | 4 | 3 | 4 | 4 | 2 | | | | 4 | | | 4 | | 4 | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | 3 | 3 | 2 | | | 2 | | | 3 | | 3 | 2 | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Ectasia | 4 | 4 | 4 | 2 | 4 | 4 | | 3 | 4 | | 4 | 3 | | 4 | 2 | | 4 | | | | 4 | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 2 | | 2 | | | | | | | | 2 | | 3 | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0626 | 0729 | 0577 | 0728 | 0542 | 0650 | 0477 | 0729 | 0660 | 0552 | 0721 | 0611 | 0582 | 0700 | 0668 | 0550 | 0778 | 0567 | 0756 | 0676 | 0592 | 0770 | 0663 | 0509 | | | 0770 |
| Degeneration, Cystic Fibrosis | 2 | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | | 2 | | | 2 | 2 | 2 | | 3 | | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 1 | 1 | | 2 | 2 | 3 | | | |
| Inflammation, Chronic Active Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 2 | | 3 | | | | 3 | | | |
| Seminal Vesicle Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lumen, Dilatation | | 3 | | 2 | | 2 | | | | | 2 | | 3 | | | | 3 | | 3 | | 2 | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Polyarteritis | | | | | | 2 | | 3 | | | | | | | | | | | | | | 2 | 2 | | | | |
| Interstitial Cell, Hyperplasia | | | 2 | | 2 | | 2 | 1 | | 1 | | 1 | 1 | | 2 | | 1 | 1 | 1 | 2 | | | | | 2 | | |
| Seminiferous Tubule, Degeneration | | 4 | | 4 | | 4 | | 4 | 3 | | 4 | | 2 | 4 | 1 | 1 | 1 | | 4 | 1 | 4 | 4 | 4 | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Myeloid Cell, Hyperplasia | 4 | 2 | | 4 | 3 | 2 | 4 | | | | | 3 | | | | | 4 | 4 | | | 2 | | 3 | | | 4 | |
| Lymph Node | | + | | + | | | | | + | | + | | | + | + | + | + | + | + | | | | + | + | + | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | 2 | | | | | | | | | | 3 | | | | | | 3 | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0626 | 0729 | 0577 | 0728 | 0542 | 0650 | 0479 | 0760 | 0622 | 0512 | 0788 | 0656 | 0528 | 0700 | 0668 | 0574 | 0758 | 0677 | 0566 | 0729 | 0670 | 0520 | 0787 | 0667 | | | 0576 |
| Lymph Node, Mandibular Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell Necrosis Sinus, Dilatation | 2 | | 2 | 2 | 2 | 2 | | 2 | | 3 | | | | | | | | 2 | | 2 | 2 | | | | | | |
| Lymph Node, Mesenteric Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell Sinus, Dilatation | 1 | 1 | | 2 | 2 | | 1 | | | 2 | 3 | | | | | | | | 1 | | | 1 | | | | | |
| Spleen Fibrosis Hematopoietic Cell Proliferation Hemorrhage Necrosis Pigmentation Capsule, Fibrosis | 3 | 2 | | | 2 | 2 | 3 | | | 2 | 3 | 2 | | | | | | | 3 | | | | | 2 | | | |
| Thymus Atrophy Hyperplasia, Lymphoid Necrosis Adventitia, Infiltration Cellular, Polymorphonuclear Epithelium, Hyperplasia | 4 | 4 | 4 | 4 | 4 | 4 | | 2 | 4 | | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. 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
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 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0626 | 0729 | 0577 | 0728 | 0542 | 0650 | 0477 | 0769 | 0610 | 0522 | 0788 | 0656 | 0528 | 0760 | 0631 | 0544 | 0727 | 0577 | 0666 | 0729 | 0570 | 0769 | 0638 | 0524 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0011 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0012 | | |
| | 1 | 1 | 1 | 1 | 1 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 2 | 2 | 0013 | | |
| | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 8 | 9 | 0 | 1 | 6 | 5 | 6 | 7 | 8 | 8 | 0 | 1 | 1 | 2 | 0014 | | |
| | 1 | 2 | 2 | 2 | 4 | 1 | 7 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 0015 | | | |

Galactocele X X
 Alveolus, Dilatation 1 1 2 1 2
 Epithelium, Hyperplasia
 Lobular, Hyperplasia X X X X

Skin +
 Cyst Epithelial Inclusion
 Fibrosis 4
 Inflammation, Chronic Active 4
 Ulcer 4

MUSCULOSKELETAL SYSTEM

Bone, Femur +
 Fibrous Osteodystrophy 3
 Skeletal Muscle +
 Diaphragm, Hemorrhage
 Diaphragm, Infiltration Cellular, Polymorphonuclear
 Diaphragm, Necrosis

NERVOUS SYSTEM

Brain +
 Meninges, Mineralization 4
 Brain, Brain Stem
 Compression +
 4 4 4 2 2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically
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 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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 Furan
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 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0626 | 0729 | 0577 | 0728 | 0542 | 0650 | 0477 | 0769 | 0650 | 0572 | 0768 | 0658 | 0520 | 0728 | 0680 | 0561 | 0744 | 0578 | 0677 | 0566 | 0729 | 0710 | 0639 | 0576 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0011 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0012 | |
| | 1 | 1 | 1 | 1 | 1 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 0 | 8 | 8 | 8 | 8 | 8 | 8 | 2 | 2 | 2 | 0013 | |
| | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 8 | 9 | 0 | 1 | 6 | 5 | 6 | 7 | 8 | 8 | 0 | 1 | 2 | 2 | 0014 | | |
| | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 0015 | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain, Cerebrum
Compression
Mineralization
Ventricle, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytosis | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinum, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinum, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinum, Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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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 2) Mild 4) Marked

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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|--|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | |
| FISCHER 344 RATS-NCTR RATS
MALE | | 6 | 7 | 5 | 7 | 5 | 6 | 4 | 7 | 6 | 5 | 7 | 6 | 5 | 6 | 7 | 6 | 6 | 5 | 7 | 5 | 6 | 7 | 7 | 6 | 5 |
| | | 2 | 2 | 7 | 2 | 4 | 5 | 7 | 2 | 1 | 1 | 2 | 0 | 2 | 2 | 3 | 2 | 0 | 2 | 7 | 6 | 2 | 1 | 3 | 8 | 4 |
| 0.92 Furan 104wk | | 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 |
| | | 1 | 1 | 1 | 1 | 1 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 0 | 8 | 8 | 8 | 8 | 8 | 2 | 2 | 2 | 2 | 2 |
| | | 2 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 8 | 9 | 0 | 1 | 6 | 5 | 6 | 7 | 8 | 8 | 0 | 1 | 1 | 2 | 2 | |
| | | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 3 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | 2 | | | | | | | | 3 | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | 1 | | | | | | | | | | 1 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 4 | 3 | 3 | 2 | 4 | 4 | 2 | 4 | 1 | 3 | 4 | 2 | 3 | 2 | 4 | 3 | 1 | 1 | 3 | 3 | 2 | 4 | 4 | 3 | 1 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | 2 | 1 | | 2 | | | | | | | | 1 | | | | | 2 | 2 | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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

Experiment Number: 10119 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Furan
CAS Number: 110-00-9

Date Report Requested: 06/03/2014
Time Report Requested: 08:42:42
First Dose M/F: 09/07/09 / NA
Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|----------|
| | 07
11 | 00
52 | 07
28 | 06
31 | 00
51 | 07
78 | 07
78 | 06
44 | 04
78 | 07
64 | 05
62 | 06
62 | 05
56 | 05
56 | 07
72 | 05
50 | 06
68 | 07
72 | 02
53 | 06
46 | 07
57 | 05
33 | 06
63 | | |
| ANIMAL ID | 02
44
00
11 | 02
44
00
12 | 02
44
01
22 | 02
44
03
21 | 02
45
02
21 | 02
45
02
21 | 02
45
02
21 | 03
44
07
21 | 03
44
07
21 | 03
44
08
21 | 03
44
09
21 | 03
45
05
22 | 03
45
09
22 | 03
49
00
21 | 03
49
01
22 | 03
49
01
22 | 03
49
02
22 | 03
49
02
22 | 04
40
03
21 | 04
40
03
22 | 04
40
04
21 | 04
40
05
21 | 04
44
05
21 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|----------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Colon
Inflammation, Chronic Active
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | 50 | 1 2.0
1 2.0 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 | |
| Basophilic Focus | X | X | | X | | | X | | X | | | | | X | | | | | | | | | | 10 | |
| Cholangiofibrosis | 4 | 4 | 3 | 4 | 3 | 4 | 2 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | | 4 | 4 | 2 | 47 3.4 | |
| Clear Cell Focus | | | | | | | | | | | X | | | | | X | | | | | | X | | 7 | |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Degeneration, Cystic | | | 2 | | | | | | | 2 | | | | | 2 | | | | | | 3 | 2 | 2 | 10 1.9 | |
| Eosinophilic Focus | | | | | X | | | | | | | | | | | | | | | | | | | 2 | |
| Granuloma | | | | | | | 2 | | | 2 | | | | | | 2 | | | | 1 | | | | 11 1.5 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 1.0 | |
| Hemorrhage | | | | | | | | | | 4 | | | | | | | | | | | | | | 2 4.0 | |
| Hyperplasia, Regenerative | | | 4 | 4 | | | | 4 | | | | | | | | | | | | | | 3 | | 7 3.6 | |

* .. 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

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

Experiment Number: 10119 - 01
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 Route: GAVAGE
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|---|--------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | |
| | 7 | 0 | 7 | 6 | 0 | 7 | 7 | 6 | 4 | 7 | 6 | 5 | 6 | 6 | 5 | 5 | 7 | 5 | 6 | 7 | | 2 | 6 | 7 | 5 | 6 | |
| ANIMAL ID | 1 | 5 | 2 | 8 | 3 | 5 | 2 | 2 | 3 | 8 | 2 | 5 | 7 | 2 | 0 | 3 | 4 | 2 | 0 | 8 | 8 | 2 | 5 | 4 | 1 | 3 | 3 |
| | 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 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | 0 | 0 | 1 | 2 | 3 | 1 | 2 | 2 | 7 | 7 | 8 | 9 | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 2 | 3 | 4 | 5 | 5 | 1 | 1 | 2 |
| | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 |
| Mixed Cell Focus | | | | X | | | X | | X | | X | | X | | | | | | | | | | | | | | 6 |
| Tension Lipidosis | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 3.0 |
| Thrombosis | | | | X | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Vacuolization Cytoplasmic | | | 2 | 4 | | | 3 | 4 | 4 | | | 2 | 3 | | | | 3 | | | 4 | | | | | 2 | | 23 2.8 |
| Bile Duct, Biliary Tract, Hyperplasia | | | 4 | | | 4 | 4 | 4 | | | 4 | 1 | 2 | | | 3 | | | 4 | | | 4 | 4 | | 3 | | 32 3.2 |
| Bile Duct, Subcapsular, Hyperplasia | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 |
| Centrilobular, Hepatocyte, Degeneration | 3 | | | 3 | | | | 4 | | 2 | 3 | | | | | 2 | | | 4 | | | 4 | 4 | | 4 | | 20 3.0 |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | 2 3.0 |
| Hepatocyte, Necrosis | 4 | | | | | | | 4 | | | | | | | | | | | | | | | | | | | 5 3.8 |
| Oval Cell, Hyperplasia | | | 4 | | | 4 | 4 | | | | | | 2 | | | | | | | | | | 4 | | 3 | | 14 3.1 |
| Periportal, Cytoplasmic Alteration | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 3 2.0 |
| Periportal, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | 3 2.3 |
| Subcapsular, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 1.0 |
| Subcapsular, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 1.0 |
| Subcapsular, Pigmentation | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 1.0 |
| Mesentery | | | + | | | | | + | | | | | | | | | | | + | | + | | M | | + | | 14 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Fat, Necrosis | | | 4 | | | | | 4 | | | | | | | | | | | 4 | | 4 | | | | 4 | | 11 3.8 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 |
| Polyarteritis | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Acinar Cell, Hyperplasia | | | | | | 2 | | | | | | | 2 | | | | 1 | | | 3 | 3 | | | 2 | | | 7 2.0 |
| Acinus, Degeneration | | | | | 2 | | 3 | | | 2 | | 1 | 2 | | | | | | | | | | | | | | 14 2.1 |
| Artery, Fibrosis | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 4.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Acinus, Degeneration | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 |

* .. 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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS | | | | | | |
|---|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|------|------|------|------|--------|-------|
| | 0711 | 0052 | 0072 | 0063 | 0005 | 0072 | 0077 | 0066 | 0044 | 0078 | 0066 | 0055 | 0066 | 0055 | 0077 | 0055 | 0066 | 0077 | 0022 | 0066 | | | 0077 | 0055 | 0066 | 0077 | 0055 | 0066 |
| 0.92 Furan 104wk | 0240 | 0024 | 0024 | 0024 | 0024 | 0024 | 0024 | 0024 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | 3 | | | | 4 | | | 4 | | | | | 3 | | | | | 9 3.1 | |
| Inflammation, Chronic Active | 1 | | | | | | | | | | 2 | | | 4 | | | 2 | | 2 | | | 3 | | | | | 13 2.2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Perforation | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | 2 4.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | 2 | | | | | 4 | | | 5 3.4 | |
| Epithelium, Hyperplasia | 2 | | | | | | | | 2 | | 2 | | | 4 | | | 2 | 1 | | | | 3 | 1 | | | | 15 2.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mucosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 1 | | 2 | 3 | 1 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | | | 2 | 2 | 2 | | 45 2.2 | |
| Foreign Body | | | | | | | | | | | | | X | | | | | | | | | | | | | | 1 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 | |
| Mineralization | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 2 3.0 | |
| Thrombosis | X | | | X | | | X | | | | | | | | | X | | | X | | | | X | | X | | 13 | |
| Pericardium, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | 1 4.0 | |
| Pericardium, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 | |
| Pericardium, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|------|
| | 0711 | 0712 | 0718 | 0721 | 0722 | 0728 | 0729 | 0734 | 0738 | 0744 | 0749 | 0752 | 0756 | 0761 | 0765 | 0771 | 0776 | 0782 | 0787 | 0793 | | 0798 |
| ANIMAL ID | 024001 | 024002 | 024004 | 024005 | 024006 | 024007 | 024008 | 024009 | 024010 | 024011 | 024012 | 024013 | 024014 | 024015 | 024016 | 024017 | 024018 | 024019 | 024020 | 024021 | 024022 | |

Pericardium, Necrosis 2 1 2.0

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | X | | | | | | | | | | | | | 1 | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | 4 | | | | 2 | 3.5 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Vacuolization Cytoplasmic | 2 | 2 | 4 | 2 | | 4 | 4 | 4 | | 3 | 1 | | | 2 | 1 | 2 | 2 | 2 | 4 | 4 | 3 | 3 | 4 | 2 | 35 | 2.6 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 1 | | | | | 2 | 4 | | | 4 | | | 1 | | 1 | 2 | | | | | | | 2 | | 19 | 2.2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hyperplasia | | | | | | | | | | 1 | | | | 2 | | | | | | 1 | | | 1 | | 7 | 1.7 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Cyst | | | | X | | | | | | X | | | | | | | | | | | | | | | 4 | |
| Pars Distalis, Hyperplasia | | | | | | | 2 | | | 4 | | | 3 | 4 | | | 3 | | | | | | | | 12 | 2.5 |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | 3 | | | | | | 1 | 3.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | | | 2 | 1 | | | 2 | | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | | | 1 | 27 | 1.3 |
| Follicle, Cyst | | | | | | | | | | | X | | | | | | | | | | | | X | | 3 | |

GENERAL BODY SYSTEM

* .. 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
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| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
1
1 | 0
0
5
2 | 0
7
2
8 | 0
6
3
1 | 0
0
5
1 | 0
7
2
8 | 0
7
2
8 | 0
6
3
4 | 0
4
8
8 | 0
7
2
4 | 0
6
5
9 | 0
5
2
1 | 0
6
6
6 | 0
5
3
3 | 0
5
4
9 | 0
7
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| ANIMAL ID | 0
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|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-------|-------|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 | |
| Mediastinum, Bacterium | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Mediastinum, Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Mediastinum, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | 2 3.5 |
| Mediastinum, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | 1 4.0 |
| Mediastinum, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Mediastinum, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4 | 2 4.0 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|--------|
| Epididymis | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exfoliated Germ Cell | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 4 | 2 | 3 | 2 | | | | | | | | | | | | | | | | | | 18 2.4 | | |
| Hypospermia | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | 4 | 4 | 4 | | 3 | 3 | 4 | | 3 | 4 | 4 | | 4 | 4 | | 4 | 4 | | | | 4 | 27 3.7 | | |
| Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 4 | 4 | 3 | | 1 | 2 | | 2 | | | | 2 | | 3 | 2 | | 4 | 3 | | 4 | | 25 2.7 | | |
| Mesothelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Preputial Gland | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abscess | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 3 | 2 | | | 3 | 3 | 3 | | 3 | 2 | | | | 2 | 2 | | 4 | 2 | | 4 | | 24 2.8 | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | 1 4.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | 2 | | 4 | | | 4 | 4 | | 4 | 4 | | | | | | | | | | | 24 3.6 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | 2 | | 1 | 2 | 4 | | | | | | | | | | 3 | 2 | 3 | 2 | 2 | 19 2.3 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Duct, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | | | 4 | | 2 | 3 | 4 | | | 4 | 2 | 2 | 3 | | | | 3 | 1 | 2 | 2 | 28 3.1 | |
| Prostate | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 2 | | | | | | | | | | | | | | | | | | 7 2.4 |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|------|------|------|
| | 0711 | 0052 | 0072 | 0063 | 0005 | 0072 | 0077 | 0066 | 0044 | 0076 | 0065 | 0066 | 0055 | 0055 | 0072 | 0055 | 0066 | 0072 | 0022 | 0066 | | 0077 | 0055 | 0066 | 0077 | 0055 | 0066 | 0077 | 0055 |
| ANIMAL ID | 0240 | 0024 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 |
| Degeneration, Cystic Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | | | 1 | | | 2 | 2 | 2 | 2 | 1 | 2 | | 4 | 2 | 2 | 2 | 1 | 3 | | | 4 | | | | | | | |
| Inflammation, Chronic Active Epithelium, Hyperplasia | | | 4 | | | | | 1 | | | 2 | | 2 | | | | | | | 3 | | 4 | | | | | 2 | | |
| Seminal Vesicle Atrophy | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lumen, Dilatation | | | 2 | 2 | | 3 | 2 | 2 | | | | 2 | 2 | | | | | | | 2 | 2 | | | | | | 2 | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Polyarteritis | | | | | | | 2 | | | | 1 | | | | | 1 | | | 2 | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | 1 | | | 2 | | 1 | | 1 | 2 | 2 | 2 | | | 1 | 1 | 1 | | | 2 | 1 | | | | | 2 | 2 | 1 | | |
| Seminiferous Tubule, Degeneration | 4 | | 2 | | | 4 | 4 | 4 | | 3 | 3 | 3 | 4 | | 4 | 4 | 4 | | 4 | 4 | | 4 | 3 | | | 4 | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Myeloid Cell, Hyperplasia | | | | | | | 2 | | | | | | | 2 | | | | | | | 4 | | | | | | | | |
| Lymph Node | + | | + | + | | + | + | + | | | | | | + | | + | + | | | | | | | + | | + | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | 2 | | | | | | | | | | | 2 | | | 2 | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | 3 | | | | | | | 3 | | | 3 | | | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | 2 | | | | | | | | 2 | | | 3 | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|----------|-----|
| | 0711 | 0712 | 0718 | 0719 | 0721 | 0722 | 0723 | 0724 | 0725 | 0726 | 0727 | 0728 | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | | | |
| | ANIMAL ID | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | | |
| Lymph Node, Mandibular
Hyperplasia, Lymphoid
Infiltration Cellular, Plasma Cell
Necrosis
Sinus, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 15 | 1.7 |
| | | 3 | | | | 2 | | | | | 2 | 1 | | | | 2 | 1 | | | 3 | | | 1 | | 18 | 2.3 |
| | | | 3 | | | 2 | 2 | | | | 3 | | | | 3 | | | | 2 | 3 | | | 2 | | 1 | 3.0 |
| | | | 4 | | | | | 1 | | 3 | 2 | 3 | | | | 2 | | | 2 | | | 3 | | | 16 | 2.3 |
| Lymph Node, Mesenteric
Hyperplasia, Lymphoid
Infiltration Cellular, Plasma Cell
Sinus, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 15 | 1.7 |
| | | | | | | 2 | | | | | 2 | 1 | | | | 1 | | | | 3 | | | 2 | | 3 | 2.0 |
| | | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 | 4.0 |
| Spleen
Fibrosis
Hematopoietic Cell Proliferation
Hemorrhage
Necrosis
Pigmentation
Capsule, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 4.0 |
| | | | | | | | 2 | | | | | | | | | 3 | | | | 1 | | | | | 13 | 2.3 |
| | | | | | | | | 4 | | | | | | | | | | | | | | | | | 1 | 4.0 |
| | | | | | | | | 4 | | | | | | | | | | | | 2 | | | | | 2 | 3.0 |
| | | | | | | 2 | | 2 | | | 2 | | 2 | 3 | | 3 | 2 | | | 3 | | | 3 | | 14 | 2.4 |
| | | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Thymus
Atrophy
Hyperplasia, Lymphoid
Necrosis
Adventitia, Infiltration Cellular,
Polymorphonuclear
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 43 | 3.9 |
| | 4 | | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 2 | 4 | 4 | 4 | 1 | 2.0 |
| | | 4 | | | 4 | | | | | | | | | | | | | | | | | | | | 2 | 4.0 |
| | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| | | | | | | | | | | | | | 3 | | | | | | | | | | | | 1 | 3.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|--|
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| ANIMAL ID | 0
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2 | 0
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5
1 | | |
| Galactocele | | | X | | | X | | | X | | | | X | X | | X | | | X | X | | | | | 18 | |
| Alveolus, Dilatation | 2 | | | | | 3 | | 1 | | | 2 | | | | | | | | 2 | | | | | 3 | 12 1.8 | |
| Epithelium, Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 | |
| Lobular, Hyperplasia | | | | | | | | 4 | | | | | | | | | | | | | | | | | 1 4.0 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Diaphragm, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Diaphragm, Infiltration Cellular,
Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Diaphragm, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Meninges, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Compression | 2 | | 2 | | | | | | | 2 | | | | 2 | 4 | | 4 | | | 2 | | | 2 | | 13 2.8 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
0.92 Furan 104wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|----------|
| | 0711 | 0712 | 0718 | 0713 | 0715 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | 0718 | |
| ANIMAL ID | 0240 | 0244 | 0244 | 0244 | 0244 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | 0245 | |
| Brain, Cerebellum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Brain, Cerebrum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Mineralization | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Ventricle, Dilatation | | | 2 | | | | | | | | | | | | | | 1 | | | | | | | 2 1.5 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Congestion | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Hemorrhage | | | 2 | | | | | 3 | | | | | | 2 | | | | | | | | | | 4 2.3 | |
| Histiocytosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Infiltration Cellular, Histiocyte | | | 2 | | | | 2 | 3 | | 1 | 1 | | | 3 | 1 | | | 3 | 1 | 4 | | | | 15 1.9 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Necrosis | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 3.0 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | 2 | | | | | | | | | | | | | | | | 2 3.0 | |
| Mediastinum, Hemorrhage | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Mediastinum, Inflammation, Suppurative | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Mediastinum, Necrosis | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | X | | | | | | | | | | | | | | | | | 1 | |
| Foreign Body | X | | X | | | | | X | X | | | | | | | | | X | | | | | | 6 | |
| Inflammation, Suppurative | 2 | | 2 | | | | | 3 | 2 | | | | | | | | | 2 | | | | | | 9 1.8 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0711 | 0712 | 0718 | 0721 | 0722 | 0723 | 0724 | 0725 | 0726 | 0727 | 0728 | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | | 0738 | 0739 | 0740 |
| ANIMAL ID | 02401 | 02402 | 02404 | 02405 | 02406 | 02407 | 02408 | 02409 | 02410 | 02411 | 02412 | 02413 | 02414 | 02415 | 02416 | 02417 | 02418 | 02419 | 02420 | 02421 | 02422 | 02423 | 02424 | 02425 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 4 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | X | | | | | | | | | | | | | | | | | | | | 2 |
| Hydronephrosis | | 1 | | | 2 | | | | | 2 | | | 2 | | 2 | | | | | | | | | 7 |
| Necrosis | | | | | | | | | | | | | | | | | | | 4 | | | | | 1 |
| Nephropathy | 2 | 1 | 3 | 3 | | 4 | 4 | 2 | 2 | 4 | 4 | 2 | 2 | 4 | 2 | 4 | 4 | 2 | 3 | 4 | 1 | 3 | 4 | 49 |
| Thrombosis | | | | | | | | | | | | | | | | | | | 4 | | | | | 1 |
| Transitional Epithelium, Hyperplasia | | | 1 | | | 1 | | | | 1 | 1 | | | | | 1 | | | | | | 1 | | 12 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lumen, Dilatation | | | | | | | | | | | 4 | | | | | | | | | | | | | 1 |
| Transitional Epithelium, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | 2 |

* .. 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

1-4 .. Lesion qualified as:
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Experiment Number: 10119 - 01
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 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 |
| FISCHER 344 RATS-NCTR RATS MALE | | 3 | 5 | 7 | 6 | 6 | 6 | 5 | 5 | 6 | 5 | 0 | 6 | 6 | 6 | 5 | 6 | 7 | 6 | 7 | 5 | 6 | 5 | 4 | 7 | |
| | | 8 | 2 | 2 | 8 | 6 | 0 | 8 | 7 | 8 | 9 | 7 | 3 | 8 | 7 | 1 | 9 | 0 | 2 | 7 | 1 | 7 | 4 | 0 | 9 | 1 |
| | 2 Furan 104 wk | 8 | 7 | 8 | 3 | 7 | 3 | 2 | 7 | 2 | 5 | 6 | 3 | 4 | 3 | 0 | 9 | 4 | 2 | 6 | 5 | 6 | 1 | 6 | 9 | 7 |
| | | 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 | 4 | 4 | 4 | 4 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 5 | 5 | 6 | 6 | 6 | 1 | 1 | 1 | |
| | | 6 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 0 | 0 | 1 | 2 | 2 | 3 | 5 | 8 | 9 | 0 | 0 | 1 | 3 | 4 | 5 |
| | | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Periesophageal Tissue, Foreign Body | | | | | | | | | | | | X | | | | | | | | | | | | |
| Periesophageal Tissue, Hemorrhage | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Periesophageal Tissue, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Intestine Large, Cecum Hemorrhage Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon Epithelium, Cyst Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum Mucosa, Hyperplasia | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Basophilic Focus | | | | X | | X | | X | | X | X | | X | | X | | X | | X | | X | | X | |

* .. 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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 2) Mild 4) Marked

Experiment Number: 10119 - 01
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|--------------------|
| | 0
3
8
8 | 0
5
2
7 | 0
7
2
8 | 0
6
8
3 | 0
6
6
7 | 0
6
0
3 | 0
6
8
2 | 0
5
7
7 | 0
5
8
2 | 0
6
9
5 | 0
5
7
6 | 0
0
3
4 | 0
6
8
3 | 0
6
7
1 | 0
5
9
0 | 0
6
0
4 | 0
7
2
2 | 0
6
7
6 | 0
7
1
5 | 0
5
7
6 | 0
6
4
1 | 0
5
0
6 | 0
4
9
9 | 0
7
1
2 | | | |
| Cholangiofibrosis | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | |
| Clear Cell Focus | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deformity | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Degeneration, Cystic | 2 | | 1 | | 2 | | 1 | | | 2 | 2 | | | | 3 | | | | | | 2 | | | | 3 | | |
| Eosinophilic Focus | | | | | | | | | | | | | X | | | | | | X | | | | | | | | |
| Granuloma | 2 | 3 | | 2 | | | | | | | | | | | | | | | | | 2 | | | 2 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Hyperplasia, Regenerative | | | | | | | | | | 4 | | | 4 | | 4 | | | 4 | | | 4 | | | 4 | | | |
| Inflammation, Chronic Active | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | X | | | X | | | | | | X | | X | | | X | | X | | | | | X | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Vacuolization Cytoplasmic | | 4 | 2 | 2 | 3 | 4 | 3 | 4 | | 3 | 4 | | | 4 | 4 | 4 | 2 | | | 3 | 2 | | 4 | 4 | | | |
| Bile Duct, Biliary Tract, Hyperplasia | 4 | 3 | 4 | 2 | 4 | 3 | 4 | 4 | 3 | 4 | 2 | | 3 | 4 | 4 | 4 | | 4 | 4 | | 4 | 4 | 4 | 3 | 4 | | |
| Centrilobular, Hepatocyte, Degeneration | | | 2 | | | | | | | 2 | 3 | 3 | | 3 | | 4 | | | 3 | | 2 | 3 | | 2 | | | |
| Hepatocyte, Hypertrophy | | | | | | | | 4 | | 4 | | | | | | | | | | | | | | 3 | | | |
| Hepatocyte, Necrosis | | | 2 | | | | | | | | 2 | | | | | | | | | | 2 | | | | | | |
| Oval Cell, Hyperplasia | 2 | 3 | | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | | 3 | 3 | | | | 4 | | | 4 | 4 | 4 | 2 | 4 | | |
| Periportal, Vacuolization Cytoplasmic | | | | | 3 | | | | | | | | | | | | | | | | | | | 2 | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinar Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
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 Furan
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 Lab: NCTR

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|--|-----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | |
| FISCHER 344 RATS-NCTR RATS MALE | 2 Furan 104 wk | 8 | 8 | 7 | 6 | 6 | 6 | 5 | 5 | 6 | 5 | 0 | 6 | 6 | 6 | 5 | 6 | 7 | 6 | 7 | 5 | | 6 | 5 | 4 | 7 |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
| | | 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 | 4 | 4 | 4 | 4 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 5 | 5 | 6 | 6 | | 6 | 1 | 3 | 4 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | 3 | 4 | 2 | 4 | | 1 | | | | 3 | | 2 | | | | 4 | | | 2 | | 4 | |
| Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | 3 | 3 | 1 | 3 | | 2 | | | | 1 | | 1 | | | | 4 | 1 | | 2 | | 3 | |
| Perforation | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Ulcer | | | | 4 | 3 | 2 | | | | | | | 1 | | | | | | | | | 2 | | 3 | |
| Epithelium, Hyperplasia | | | | 3 | 3 | 2 | 3 | | 2 | | | | 3 | | 1 | | | | 4 | 1 | | 2 | | 3 | |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Serosa, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mucosa, Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | | | 2 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 1 | 2 | 1 | | 3 | | 2 | 3 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | X | | | | | | | | | | | X | | | | | | | | | |

ENDOCRINE SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 M .. Missing tissue
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 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0388 | 0527 | 0778 | 0683 | 0667 | 0663 | 0662 | 0587 | 0558 | 0662 | 0556 | 0063 | 0664 | 0663 | 0660 | 0594 | 0672 | 0666 | 0775 | 0566 | | | 0651 | 0566 | 0496 |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Angiectasis | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 1 | 2 | | 2 | 2 | 2 | 2 | 2 | 4 | 3 | | | 2 | 3 | | 3 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 3 |
| Capsule, Fibrosis | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | 2 | | 2 | | | | 3 | | 2 | | | | | 2 | 2 | | | 3 | | | 2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | 2 | | 2 | 1 | 2 | | | | 1 | | | 2 | | 1 | | | | 1 | | | | | 2 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | 2 | | | | | | 3 | | 4 | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | 1 | 2 | 1 | | 2 | 2 | | 2 | | 1 | 1 | | | 1 | 1 | | 2 | 1 | 2 | | | 1 |
| Follicle, Cyst | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|--|
| FISCHER 344 RATS-NCTR RATS MALE | | DAY ON TEST | 0
3
8
8 | 0
5
2
7 | 0
7
2
8 | 0
6
8
3 | 0
6
0
7 | 0
6
8
2 | 0
5
7
7 | 0
5
8
2 | 0
6
9
5 | 0
5
7
6 | 0
0
3
4 | 0
6
8
7 | 0
6
6
1 | 0
5
9
0 | 0
6
7
2 | 0
7
6
6 | 0
7
1
5 | 0
5
7
6 | 0
6
4
1 | 0
5
0
6 | 0
4
9
9 | 0
7
1
6 | 0
9
9
2 | 0
7
4
9 | 0
6
9
2 | 0
7
1
7 | males (cont...) | | |
| | | ANIMAL ID | 0
0
1
6
1 | 0
0
1
6
2 | 0
0
1
7
1 | 0
0
1
8
2 | 0
0
1
9
2 | 0
0
4
0
1 | 0
0
4
1
2 | 0
0
4
1
2 | 0
0
4
2
1 | 0
0
4
2
1 | 0
0
4
3
1 | 0
0
4
9
2 | 0
0
9
9
2 | 0
0
9
1
2 | 0
0
9
2
1 | 0
0
0
5
2 | 0
0
5
8
2 | 0
0
6
0
1 | 0
0
6
0
1 | 0
1
6
1
3 | 0
1
6
1
4 | 0
2
6
3
2 | 0
2
6
4
2 | 0
2
1
8
2 | 0
2
1
5
2 | 0
2
2
2
2 | | 0
2
2
5
2 | |
| | | Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Peritoneum +

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Exfoliated Germ Cell | | | | 2 | | | | | | | | | 4 | | | | | | | | | | | 3 | | | | | | | | | | | | | 2 |
| Hypospermia | | | | | 4 | 4 | 4 | | | | | | | 4 | 3 | | | | | | | | | 4 | 4 | | | | | | | | | | | | |
| Epithelium, Degeneration | | | 2 | 3 | 1 | 3 | | | 1 | | | | 4 | | 3 | 2 | 3 | | | | | 1 | 3 | | | | | | | | | | | | | | 3 |
| Mesothelium, Hyperplasia | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Abscess | | | | | | | | | | | | | | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | 2 | 3 | 2 | 3 | | | | | | | 3 | | | | | | 3 | | | | | | | | 3 |
| Inflammation, Suppurative | | | | 4 | 4 | 3 | | | | | | | 2 | 3 | | | | | | | | | | 4 | 4 | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | 3 | 2 | 2 | | | | 4 | | | | | | | | | | | 3 | | | 3 | 3 | 2 | 2 | 2 | 2 | 2 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Ectasia | | | | 3 | 4 | 3 | | | 2 | | 2 | 4 | | | 4 | 4 | 4 | | | | | | 4 | | | 4 | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | 2 | | | | | | | 2 | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | 4 | 1 | 2 | 3 | 2 | 2 | 2 | | | | 2 | | | | | | | | | 1 | 2 | 1 | 2 | 4 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Polyarteritis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | 3 | | 3 | | | 1 | | | | | | 2 | | | | | | | | 2 | | 2 | | | | | | | | | | | 3 |

Seminal Vesicle + + + + + + + + + + + + + + + A + + + + + + + + + +

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|
| | 0
3
8
8 | 0
5
2
7 | 0
7
2
8 | 0
6
8
3 | 0
6
6
7 | 0
6
0
3 | 0
6
8
2 | 0
5
7
7 | 0
5
8
2 | 0
6
9
5 | 0
6
7
6 | 0
5
3
4 | 0
6
8
3 | 0
6
6
0 | 0
5
9
4 | 0
6
0
2 | 0
7
2
6 | 0
7
1
5 | 0
5
7
6 | 0
6
4
1 | | | 0
5
0
6 | 0
4
9
6 | 0
7
1
7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0001161 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0001162 | |
| | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 5 | 5 | 6 | 6 | 1 | 1 | 0001163 | |
| | 6 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 2 | 3 | 0 | 0 | 1 | 2 | 2 | 3 | 5 | 8 | 9 | 0 | 0 | 1 | 0001164 | |
| | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 0001165 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Atrophy
Lumen, Dilatation | | | | 3 | 3 | | | | | 2 | | | 3 | 2 | | | | | 2 | | | | | |
| Testes
Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Polyarteritis | | | 3 | | | 2 | 2 | | | | | | | 2 | | | 2 | | | | | | | |
| Interstitial Cell, Hyperplasia | 1 | 2 | | 2 | | 2 | | 1 | 1 | 2 | 2 | | | 1 | | 2 | 2 | | 1 | 1 | | | 1 | |
| Seminiferous Tubule, Degeneration | | 2 | 4 | 4 | 4 | | 2 | | | 4 | | | 4 | 3 | | 1 | | 2 | 2 | 4 | 4 | 1 | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow
Hyperplasia, Megakaryocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Myeloid Cell, Hyperplasia | 3 | | 2 | 4 | | | | 3 | | | | | 3 | | 2 | | | | | 4 | | 3 | 3 |
| Lymph Node
Axillary, Necrosis | | | + | + | | | + | | + | + | | | + | + | + | | + | + | + | | + | | + |
| Deep Cervical, Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Hepatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Hepatic, Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Hepatic, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | |
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | 4 | | 3 | | | |
| Lumbar, Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | 3 | | 3 | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | 2 | |

* .. 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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 2) Mild 4) Marked

Experiment Number: 10119 - 01
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 CAS Number: 110-00-9

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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|
| | 0388 | 0527 | 0778 | 0668 | 0666 | 0666 | 0556 | 0555 | 0666 | 0556 | 0006 | 0666 | 0666 | 0556 | 0555 | 0666 | 0778 | 0666 | 0778 | 0556 | | | 0666 | 0556 | 0447 |
| | 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 | 4 | 4 | 4 | 4 | 4 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 5 | 5 | 6 | 6 | 1 | 1 | 1 | |
| | 6 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 0 | 0 | 1 | 2 | 3 | 5 | 8 | 9 | 0 | 0 | 1 | 3 | 4 | 5 | |
| | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | 3 | | | | | | | | 2 | | | | | | | | | |
| Pancreatic, Infiltration Cellular, Plasma Cell | | | | | | | | 2 | | | | | | | | | | | | | | | | 3 | |
| Pancreatic, Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Pancreatic, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Popliteal, Infiltration Cellular, Plasma Cell | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Sinus, Dilatation | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | 2 | | 2 | | | | | | | |
| Renal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | 3 | | | | | | | | 3 | |
| Renal, Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Renal, Sinus, Dilatation | | | | | | | | | | | | | | 2 | | | | 2 | | | | | | 4 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid | 2 | | 2 | | 2 | | 2 | | | | | | | | | 1 | | | | 1 | | 2 | | 2 | |
| Infiltration Cellular, Plasma Cell | | | 2 | 2 | | | 2 | 2 | | | | | | | | 2 | 2 | | 2 | 1 | 2 | 3 | 2 | 1 | 3 |
| Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | | | | | | 2 | | 4 | | | | | | | | 4 | | | | 2 | | 4 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | 2 | | 1 | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 4 | | | 3 | 1 | | 2 | | | | | | | | 2 | | 2 | 3 | | | 4 | | | 4 | |
| Hemorrhage | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Pigmentation | | | | | | 2 | | | | | | | | | 3 | | 2 | | | | 3 | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0388 | 0527 | 0728 | 0683 | 0667 | 0663 | 0662 | 0587 | 0558 | 0552 | 0669 | 0573 | 0684 | 0663 | 0660 | 0594 | 0672 | 0667 | 0756 | 0664 | 0576 | 0661 | 0546 | 0659 | | |
| | 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 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 5 | 5 | 6 | 6 | 6 | 1 | 1 | 1 | 1 |
| | 6 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 0 | 0 | 1 | 2 | 2 | 3 | 5 | 8 | 9 | 0 | 0 | 1 | 1 | 3 | 4 | 5 |
| | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 |

Capsule, Fibrosis

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | | | 4 | | 2 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | 4 | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocoele | | | X | | X | X | X | | | | | | | | X | X | X | X | | | | X | X | X | |
| Alveolus, Dilatation | | 2 | 3 | | 3 | | | | 2 | 4 | | | | 4 | 2 | | | | 3 | 2 | | | | | |
| Lobular, Hyperplasia | | | | | 4 | | | | | | | | 4 | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | X | | | | | | | | X | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Metaplasia, Osseous Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 3 | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone, Femur | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | | | 1 | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain, Brain Stem | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | 4 | | | 3 | | 2 | 3 | | 2 | | | | | 3 | 3 | 2 | | 4 | | | 3 | 4 | 2 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 CAS Number: 110-00-9

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 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|--------------------|
| | 0
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7 | 0
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8 | 0
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3 | 0
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7 | 0
5
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2 | 0
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5 | 0
6
7
6 | 0
5
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4 | 0
6
8
3 | 0
6
6
0 | 0
5
1
9 | 0
6
9
4 | 0
7
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2 | 0
6
7
6 | 0
7
1
5 | 0
5
7
6 | 0
6
4
1 | 0
5
0
6 | 0
4
9
6 | 0
7
9
2 | | | |
| Brain, Cerebellum Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Brain, Cerebrum Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Ventricle, Dilatation | | 3 | | | | | | | | | | | | | 1 | | | | | | | | 1 | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 2 | | | 2 | 1 | | | | | 3 | 2 | | | | 1 | | | 1 | | 1 | 1 | | 2 | 1 | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Nose Foreign Body | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation, Suppurative | | | | | X | | | | | X | | | | | | | X | X | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye Cataract | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | | | |
| Hemorrhage | | 3 | | | 1 | | | | | | | | | | | | | | | | | | 4 | | | | |
| Optic Nerve, Degeneration | | | 3 | | | | | | | | | | | | | | | | | | | | 4 | | | | |
| Retina, Degeneration | | 4 | | | 3 | | | | | | | | | | | | | | | | | | 4 | | | | |

* .. 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

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| DAY ON TEST | FISCHER 344 RATS-NCTR RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | | | |
|-------------|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|---|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 0 | 0 | |
| 3 | 5 | 7 | 6 | 6 | 6 | 6 | 5 | 5 | 6 | 5 | 0 | 6 | 6 | 6 | 5 | 6 | 7 | 6 | 7 | 5 | 6 | 5 | 4 | 7 | 0 | |
| 8 | 2 | 2 | 8 | 6 | 0 | 8 | 7 | 8 | 9 | 7 | 3 | 8 | 7 | 1 | 9 | 0 | 2 | 7 | 1 | 7 | 4 | 0 | 9 | 1 | 0 | |
| 8 | 7 | 8 | 3 | 7 | 3 | 2 | 7 | 2 | 5 | 6 | 3 | 4 | 3 | 0 | 9 | 4 | 2 | 6 | 5 | 6 | 1 | 6 | 9 | 7 | 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 | 0 | 0 | 0 | |
| 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 5 | 5 | 6 | 6 | 6 | 1 | 1 | 1 | 0 | |
| 6 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 0 | 0 | 1 | 2 | 2 | 3 | 5 | 8 | 9 | 0 | 0 | 1 | 3 | 4 | 5 | 0 | |
| 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Lymphocyte Acinus, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | |
| Keratin Cyst | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | X | | | | | | | | | | |
| Hydronephrosis | | | 3 | | | | | | | | 1 | | 2 | | | | | | 1 | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 3 | | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 4 | 2 | 4 |
| Pelvis, Inflammation, Suppurative Transitional Epithelium, Hyperplasia | | | | 1 | | | 2 | 2 | | 2 | | 1 | 2 | | | | 1 | 1 | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lumen, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 4 | | | | | | | | |

* .. 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
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 10119 - 01
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 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0711 | 0712 | 0713 | 0659 | 0663 | 0666 | 0557 | 0557 | 0667 | 0659 | 0659 | 0722 | 0722 | 0547 | 0556 | 0728 | 0592 | 0728 | 0664 | 0728 | 0664 | 0666 | 0662 | 0531 | | 0663 |
| ANIMAL ID | 02161 | 02162 | 02163 | 02163 | 02163 | 02163 | 02166 | 02166 | 02166 | 02164 | 02164 | 02164 | 02164 | 02167 | 02167 | 02167 | 02167 | 02163 | 02163 | 02163 | 02163 | 02163 | 02163 | 02163 | 02163 | 02163 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Periesophageal Tissue, Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Periesophageal Tissue, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Periesophageal Tissue, Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | 46 | |
| Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |
| Mucosa, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | 46 | |
| Epithelium, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mucosa, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | 2 | | | | 2 2.0 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Mucosa, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | 2 | | | | 2 2.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | 47 | |
| Mucosa, Hyperplasia | | | | | | 3 | | | | | | | | | | | | | | | | | 2 | | | | 4 2.3 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | 46 | |
| Mucosa, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | 2 | | | | 2 2.0 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | 46 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Basophilic Focus | X | | X | | X | | | | | | X | X | | X | X | | X | X | | | | | | X | | | 21 |

* .. 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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| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|------------------|-----|
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8 | |
| ANIMAL ID | 0
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2 | 0
0
4
8
1 | | | |
| Cholangiofibrosis | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 49 | 3.9 |
| Clear Cell Focus | X | | X | | | | | | | | | | | | | | | | | X | X | | | | | | | 6 | |
| Congestion | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | 1 | 3.0 |
| Deformity | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Degeneration, Cystic | 2 | | 2 | | 2 | | | | 4 | | | | | 2 | | 3 | 3 | | | | | | | | | 2 | 17 | 2.2 | |
| Eosinophilic Focus | | | | | X | | | | | | | X | | X | X | | | X | | | | | | | | | 7 | | |
| Granuloma | | | | | | | | | | | 3 | | | 2 | | | | | | | | | 1 | | | | 8 | 2.1 | |
| Hemorrhage | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | X | | | | | | | | 2 | | |
| Hyperplasia, Regenerative | 4 | | | 4 | | | 4 | | 3 | | | 4 | | | | | | 4 | | | | | | | | | 12 | 3.9 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Mixed Cell Focus | | | X | | | | | | | | X | | | X | X | | X | | | X | X | | | | | | 13 | | |
| Pigmentation | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Vacuolization Cytoplasmic | | 3 | 4 | 4 | 3 | 4 | | 4 | 4 | | 3 | 4 | 4 | 4 | 4 | | 2 | | 3 | 3 | 2 | 2 | 3 | 4 | 3 | 37 | 3.3 | | |
| Bile Duct, Biliary Tract, Hyperplasia | 4 | 2 | 4 | 4 | 4 | | 4 | 3 | | | 4 | 4 | 4 | 2 | 4 | 3 | 4 | 4 | 4 | | 4 | 4 | 2 | 2 | 4 | 43 | 3.6 | | |
| Centrilobular, Hepatocyte, Degeneration | | | | 3 | 2 | | 3 | | 4 | 4 | | 2 | 4 | | | | | 4 | | 3 | | | | | | 19 | 2.9 | | |
| Hepatocyte, Hypertrophy | | | | | | | | | 4 | | | | | | 3 | | | | | | | | | | | 5 | 3.6 | | |
| Hepatocyte, Necrosis | | | | | | | | 4 | | | | | | | | | | | | | | | | | | 4 | 2.5 | | |
| Oval Cell, Hyperplasia | 4 | 4 | 4 | 4 | 2 | | 4 | 2 | | | | 4 | 4 | | 3 | 3 | 4 | 4 | | | 2 | | | 2 | | 33 | 3.1 | | |
| Periportal, Vacuolization Cytoplasmic | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.7 | | |
| Mesentery | | | | | | + | | + | + | | | | | | + | | | | | | | | + | | | 10 | | | |
| Fat, Necrosis | | | | | 4 | | | 4 | 4 | | | | | | 3 | | | | | | | | 4 | | | 9 | 3.8 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Necrosis | | | | | | | | | | | | | | 4 | | | | | | | | | | | | 1 | 4.0 | | |
| Acinar Cell, Hyperplasia | | 2 | | | | | | | | | 4 | | | | | | | | 2 | | 2 | 2 | | | 8 | 2.4 | | | |
| Acinus, Degeneration | | | 2 | | | | | 1 | | 1 | | 3 | | | | | | | | | | | | | 7 | 2.0 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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| FISCHER 344 RATS-NCTR RATS MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|--------|--------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | |
| | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 6 | 5 | 7 | 7 | 5 | 5 | 7 | 5 | 7 | 6 | 7 | 6 | | 6 | 6 | 5 | 6 | 7 |
| ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 48 | |
| Edema | | | | | | 2 | | | | | 3 | | | | | 3 | | | | | | | 3 | 2 | 15 2.8 | |
| Hyperplasia, Basal Cell | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Inflammation, Chronic Active | | | 1 | | 2 | | 4 | 2 | | 3 | | | | | | 3 | | | | | | | 4 | 1 | 19 2.3 | |
| Perforation | | | | | | | | 4 | | | | | | | | | | | | | | | 4 | | 3 4.0 | |
| Ulcer | | | | | 4 | | | 2 | | | | | | | | 2 | | | | | | | | | 9 2.6 | |
| Epithelium, Hyperplasia | | | 2 | | 4 | | 4 | 2 | | 3 | | | | | | 4 | 2 | | 1 | | | | 3 | 1 | 21 2.5 | |
| Serosa, Fibrosis | | | | | | | | 4 | | | | | | | | | | | | | | | | | 2 3.5 | |
| Serosa, Necrosis | | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 48 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Chronic Active | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Mineralization | 4 | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Necrosis | | | | | | 4 | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Mucosa, Hyperplasia | 4 | | | | 2 | | | | | | | | | | | | | | | | | | 2 | | 5 2.4 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 1 | 2 | 2 | | 2 | 1 | 2 | 3 | | 3 | 2 | 1 | 3 | 4 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 3 | 44 2.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 |
| Thrombosis | | | | | | | | | | X | | | | | | | | | | | | | | | 3 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
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 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------|
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| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | X | | | 2 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Hypertrophy | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Vacuolization Cytoplasmic
Capsule, Fibrosis | 3 | 1 | | | 2 | 3 | 3 | 3 | 3 | 3 | 2 | | | 2 | 1 | | 2 | 3 | 2 | 2 | 3 | 3 | | 4 | 3 | 40 2.4
1 4.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | 4 | 2 | 2 | 3 | 2 | 2 | | | 2 | | | 2 | | | | | 2 | 2 | 1 | | 3 | | | 2 | | 21 2.2 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | 3 1.7 | |
| Necrosis | | | | | | | | | | | | | 4 | | | | | | | | | | | | | 1 4.0 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | 3 | | | 2 | | | 1 | | 1 | | | | 2 | | | 1 | | 1 | | | 2 | 3 | 2 | 19 1.7 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hemorrhage | | | | | | | | | | | | | | | 4 | | | | | | | | | 4 | | 3 4.0 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | X | | | | | | 1 | |
| Pars Distalis, Hyperplasia | | | | 2 | | | | | | 3 | 1 | | 2 | 2 | | 1 | 2 | | 2 | | | | 4 | | | 12 2.3 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | | | | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | | | | | | 1 | | 2 | 1 | 2 | | | 28 1.4 | |
| Follicle, Cyst | X | | X | | | X | | | | | | | | | | X | | | | X | | | | X | | 7 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |

GENERAL BODY SYSTEM

* .. 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

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

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|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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Peritoneum

1

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Exfoliated Germ Cell | 4 | | | 3 | | | 2 | | 4 | | 2 | | 2 | | 3 | | | | 2 | | | | 3 | 2 | | 14 2.7 |
| Hypospermia | 4 | 4 | 4 | 4 | 3 | | 2 | | 4 | | 2 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | | 4 | | 4 | | | 26 3.8 |
| Epithelium, Degeneration | | 2 | 2 | 4 | 2 | | 2 | 3 | 4 | | | 2 | 3 | | 3 | | | | 4 | 3 | | 4 | | 3 | | 26 2.7 |
| Mesothelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Abscess | | | 4 | | | | | | | | | 4 | | | 4 | | | | 4 | | | | | | | 6 4.0 |
| Fibrosis | 4 | 3 | | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | | | 2 | | | | | 3 | | | | | 21 2.7 |
| Inflammation, Suppurative | 4 | 3 | | | 3 | 4 | | 2 | | | | | | 4 | 3 | 4 | 4 | | 3 | 2 | | 4 | | 4 | 3 | 24 3.3 |
| Inflammation, Chronic Active | | | | 3 | | | 3 | | 4 | 4 | 1 | | 2 | | | | | 4 | | | | | | | | 18 2.8 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Acinus, Hyperplasia | | | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 4.0 |
| Duct, Ectasia | 4 | 4 | | | 4 | 2 | 3 | 4 | | | | 4 | 4 | 3 | 4 | 4 | 2 | 4 | 2 | | 4 | 3 | 3 | 3 | | 29 3.4 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | 3 | 2 | | | | 2 | | | | | 3 | 2 | | | 3 | | 2 | | | | | | | 10 2.4 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Fibrosis | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Suppurative | 4 | 2 | | | 1 | 2 | | 2 | 2 | 2 | 2 | | | 2 | | 1 | 2 | | 1 | 4 | | 3 | 3 | 4 | 2 | 36 2.3 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | 1 | | | | | | 3 2.0 |
| Polyarteritis | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 |
| Epithelium, Hyperplasia | | 2 | 3 | 1 | | | | | | | 1 | | | | | | | 3 | 2 | | 1 | | | 1 | | 14 2.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 48 |

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

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate

I .. Insufficient tissue

BLANK .. Not examined microscopically

2) Mild 4) Marked

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|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|-----|
| | 071161 | 072161 | 073161 | 074161 | 075161 | 076161 | 077161 | 078161 | 079161 | 070161 | 071161 | 072161 | 073161 | 074161 | 075161 | 076161 | 077161 | 078161 | 079161 | 070161 | | 071161 | |
| Atrophy | 2 | | 4 | 2 | | | 2 | 2 | | | 4 | 4 | | | 3 | | 2 | 2 | | | 2 | 17 | 2.6 |
| Lumen, Dilatation | | 3 | | | | | | | 4 | | | | | | | | | | | | | 5 | 2.6 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mineralization | | | | | | | | | | | | | | | | | | 4 | | | 2 | 3 | 3.3 |
| Polyarteritis | | | | 1 | 2 | | | | | 2 | | | 2 | | | | | | 2 | | 2 | 12 | 2.0 |
| Interstitial Cell, Hyperplasia | 1 | 1 | | 1 | | | 2 | 1 | | 2 | | | 2 | 1 | | | | 3 | | 2 | 1 | 26 | 1.5 |
| Seminiferous Tubule, Degeneration | 4 | 4 | 4 | 4 | 3 | 2 | 3 | 1 | 4 | | 3 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 37 | 3.2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 49 | |
| Hyperplasia, Megakaryocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Myeloid Cell, Hyperplasia | 4 | 2 | 2 | | 3 | 2 | | | | | 3 | | | 4 | 3 | 4 | | 4 | | 4 | 4 | | 2 | 21 | 3.0 |
| Lymph Node | + | + | | + | + | + | + | + | + | + | | | | + | | | + | + | + | + | + | + | + | 33 | |
| Axillary, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Deep Cervical, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Hepatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | 3 | | | | | | | | | | 2 | 2.5 |
| Hepatic, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hepatic, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Hepatic, Sinus, Dilatation | | | | | | | | | | | | | | 3 | | | | | | | | 2 | | 2 | 2.5 |
| Inguinal, Infiltration Cellular, Plasma Cell | 4 | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Lumbar, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 |
| Lumbar, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 |
| Lumbar, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Lumbar, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | 3 | | | 3 | 3.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 |
| Mediastinal, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Mediastinal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

* .. 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
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|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------|
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| Pancreatic, Hyperplasia, Lymphoid | 3 | | | | | | | | | | 2 | | | | | | | | | | | | | | 2 | 6 2.3 |
| Pancreatic, Infiltration Cellular, Plasma Cell | 3 | | | | 3 | | 3 | | | | | | | | | | | | | | | | | | 3 | 6 2.8 |
| Pancreatic, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pancreatic, Sinus, Dilatation | | 4 | | | | | | | | | | | | | | | | | 3 | | | | | | 3 | 4 3.3 |
| Popliteal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Popliteal, Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | 3 | | | | | | 3 2.3 |
| Renal, Infiltration Cellular, Plasma Cell | 4 | | | | | | | | | | | | | | | | | | 4 | | | | | | 4 | 4 3.5 |
| Renal, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Renal, Sinus, Dilatation | | | | | 3 | | | | | | | | | | | | | | | 4 | | | | | 3 | 6 3.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | | 2 | | | | 2 | | | | | | 3 | | | 2 | | | | | | | | | 2 | | 13 1.9 |
| Infiltration Cellular, Plasma Cell | 2 | | 2 | | 3 | 1 | | 2 | | | | | | 2 | 2 | | | | | | | | 2 | | | 22 2.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Sinus, Dilatation | 3 | 2 | 4 | | 2 | | | | | | | 2 | | | | 2 | 2 | 2 | | | | | | 1 | 3 | 15 2.6 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | 2 | 2 | | | | | | | | | | | | | | | | | | 2 | | | | 2 | | 6 1.8 |
| Infiltration Cellular, Plasma Cell | | 2 | 2 | | | | | | | | | | | | | | | | 2 | | | | | | | 3 2.0 |
| Inflammation, Granulomatous | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Sinus, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 4 | | | 2 4.0 |
| Hematopoietic Cell Proliferation | 4 | 4 | 2 | | | | 4 | | | 2 | 1 | | | 1 | 2 | 3 | | 4 | | 4 | 4 | | 2 | | | 22 2.8 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pigmentation | 2 | | 2 | | | 3 | | | | 2 | 2 | | | | | | 2 | | 3 | | | | 3 | | | 12 2.4 |
| Thrombosis | | | | | | | | | | | | | | | | | | 4 | | | | | | | | 1 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|
| | 071161 | 072121 | 077031 | 066593 | 066333 | 066566 | 055377 | 055777 | 066993 | 066997 | 077228 | 077228 | 055477 | 055668 | 077283 | 077288 | 066411 | 077488 | 066544 | 066066 | | 066552 | 055331 | 066033 |
| ANIMAL ID | 021161 | 022121 | 022231 | 022333 | 022333 | 022666 | 022666 | 022666 | 022444 | 022444 | 022777 | 022777 | 022777 | 022777 | 022777 | 022888 | 022888 | 022888 | 022888 | 022888 | 022888 | 022888 | 022999 | 022444 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|--|---|---|--|---|--|---|---|---|---|---|---|---|---|---|---|---|----|-----|---|----|-----|
| Capsule, Fibrosis | 4 | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | |
| Thymus | + | | | | | | | | | | | | | | | | | | | | 49 | | | | |
| Atrophy | 4 | 4 | 4 | | 4 | 4 | | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 42 | 4.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|--|---|---|---|--|---|--|---|--|---|--|---|--|---|---|--|---|---|----|-----|---|----|--|
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Galactocoele | X | X | | X | X | X | | X | | X | | X | | X | | X | X | | X | X | | X | X | 24 | |
| Alveolus, Dilatation | | | | | | | | | | | | | | | | | | | | | 15 | 2.4 | | | |
| Lobular, Hyperplasia | 4 | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | | | |
| Skin | + | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | 6 | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | |
| Metaplasia, Osseous Epithelium, Hyperplasia | 4 | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | |
| | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Bone, Femur | + | | | | | | | | | | | | | | | | | | | | 50 | |
| Fibrous Osteodystrophy | 3 | | | | | | | | | | | | | | | | | | | | 1 | 1.7 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|--|---|---|---|--|---|--|---|--|---|--|---|--|---|--|---|--|---|----|-----|----|-----|
| Brain, Brain Stem | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Compression | 3 | | | 2 | 3 | 2 | | 4 | | 4 | | 3 | | 3 | | 2 | | 2 | | 4 | 4 | 2 | 23 | 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | | |

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

Experiment Number: 10119 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
 CAS Number: 110-00-9

Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|------------------------------|
| | 071161 | 072112 | 077033 | 066593 | 066333 | 066536 | 055377 | 055577 | 066973 | 059938 | 072288 | 077477 | 055677 | 077288 | 057938 | 077288 | 066418 | 077584 | 066056 | 066522 | | 053303 | 066038 |
| ANIMAL ID | 021161 | 022112 | 023133 | 023333 | 023333 | 026666 | 026666 | 026666 | 024444 | 024444 | 027777 | 027777 | 027777 | 027777 | 027777 | 028888 | 028888 | 028888 | 028888 | 028888 | 029999 | 024422 | 024422 |
| Brain, Cerebellum Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 |
| Brain, Cerebrum Hemorrhage Ventricle, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2
3
3 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Congestion Hemorrhage Infiltration Cellular, Histiocyte Inflammation, Chronic Alveolar Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
3
3
17
4
4 |
| Nose Foreign Body Inflammation, Suppurative | + | + | + | + | X | + | + | X | + | + | + | + | A | + | + | + | + | + | + | + | A | + | 48
7
9 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye Cataract Hemorrhage Optic Nerve, Degeneration Retina, Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | 47
4
1
4
6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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Date Report Requested: 06/03/2014
 Time Report Requested: 08:42:42
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

| FISCHER 344 RATS-NCTR RATS
MALE
2 Furan 104 wk | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|------|------|---|
| | 0711 | 0718 | 0720 | 0605 | 0603 | 0606 | 0505 | 0505 | 0606 | 0505 | 0605 | 0707 | 0707 | 0505 | 0505 | 0707 | 0505 | 0707 | 0606 | 0707 | | 0606 | 0606 | 0505 | 0606 | 0707 | 0606 | 0707 | |
| ANIMAL ID | 0211 | 0211 | 0213 | 0203 | 0203 | 0203 | 0206 | 0206 | 0206 | 0204 | 0204 | 0204 | 0204 | 0207 | 0207 | 0207 | 0207 | 0207 | 0208 | 0208 | 0208 | 0208 | 0208 | 0208 | 0208 | 0208 | 0208 | | |
| Harderian Gland
Infiltration Cellular, Lymphocyte
Acinus, Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Zymbal's Gland
Keratin Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nephropathy | 4 | 3 | 4 | 2 | 4 | 4 | 2 | 4 | 2 | 3 | 4 | 4 | 3 | 4 | 3 | 2 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 49 | |
| Pelvis, Inflammation, Suppurative | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Transitional Epithelium, Hyperplasia | 2 | | 1 | | 1 | 1 | | | | | 2 | | | 1 | | | 1 | | 1 | | | | | 1 | 3 | | 19 | | |
| Urinary Bladder
Lumen, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Transitional Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

*** END OF REPORT ***

* .. 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

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