

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: 08:43:51
First Dose M/F: 09/07/09 / NA
Lab: NCTR

60 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 009 0 Vehicle 60 wk Include 010 0.02 Furan 60 wk Include 011 0.044 Furan 60wk
Include 012 0.092 Furan 60wk Include 013 0.2 Furan 60 wk Include 014 0.44 Furan 60 wk
Include 015 0.92 Furan 60 wk Include 016 2 Furan 60 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 60 wk	DAY ON TEST																				ANIMAL ID			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	
	4	2	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4			
	2	3	2	2	2	2	0	2	2	2	2	0	2	2	2	2	2	2	2	2	2	2		
	0	0	0	0	0	0	7	0	0	0	0	0	3	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	0	0	0	0		
	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4		
	0	4	5	0	0	0	3	3	6	6	0	4	7	9	4	4	6	0	1	3	0	0		
	2	5	8	2	7	9	2	5	3	5	0	4	9	1	4	5	0	7	5	0	0	0		
	2	2	1	1	1	1	1	2	1	1	2	2	2	1	1	1	2	1	1	1	1	1		
																						* TOTALS		

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Cecum	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19		
Intestine Large, Colon	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19		
Intestine Large, Rectum	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19		
Intestine Small, Duodenum	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19		
Intestine Small, Ileum	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	18		
Intestine Small, Jejunum	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Angiectasis															2		2						2	2.0
Basophilic Focus			X																				1	
Granuloma	1			2	1		1			1		1	2	1	1	2	1			2		12	1.3	
Hepatodiaphragmatic Nodule				X																			1	
Mixed Cell Focus					X																		1	
Tension Lipidosis	3																					1	3.0	
Vacuolization Cytoplasmic	1		1	2	1				1	1			2	2			2	1			2	11	1.5	
Bile Duct, Biliary Tract, Hyperplasia	1		1	1	1								1	1		1						7	1.0	
Mesentery		+								+				+					+			4		
Inflammation, Chronic		4																					1	4.0
Thrombosis		X																					1	
Fat, Necrosis										4				4				4					3	4.0

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

Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Infiltration Cellular, Lymphocyte Acinus, Degeneration			1						1								1		1		4 1.0
	1						4		2	1						1		3			6 2.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Cardiomyopathy	1	1	3	1	2	2	1	2	2	2	2	2	1	3	2	2	2	2	1		20 1.8

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Hypertrophy															2						1 2.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Pars Distalis, Cyst								X					X								2

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	4	2	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	0			
	2	3	2	2	2	2	0	2	2	2	2	0	2	2	2	2	2	2	2	2	2	0		
	0	0	0	0	0	0	7	0	0	0	0	3	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	0	0	0	0	0		
	0	0	0	1	1	1	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	0		
	0	4	5	0	0	0	3	3	6	6	0	4	7	9	4	4	6	0	1	3	0	0		
	2	5	8	2	7	9	2	5	3	5	0	4	9	1	4	5	0	7	5	0	0	0		
	2	2	1	1	1	1	1	2	1	1	2	2	2	1	1	1	2	1	1	1	1	0		
																						* TOTALS		
Pars Distalis, Hyperplasia	3			2				2			3		3		2		4		2		2			9 2.6
Thyroid Gland	+																					20		
C-cell, Hyperplasia				1		2					3				1		1		1			6 1.5		

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+																					20				
Exfoliated Germ Cell	2																		3		1			3 2.0		
Hypospermia	4																		4			2 4.0				
Preputial Gland	+																					20				
Infiltration Cellular, Lymphocyte	1																			2			2 1.5			
Inflammation, Suppurative	4																4			5 3.6						
Inflammation, Chronic Active	1	2	2		2	1	2	2		4			2	4	2	3			3	2		13 2.2				
Duct, Ectasia	2				4		4		2		4		4		4		4		4			7 3.4				
Prostate	+																					20				
Inflammation, Suppurative	1		1	2	2		1		1	1			2	1	1	1	3	1				13 1.4				
Epithelium, Hyperplasia	2																		3		1			3 2.0		
Seminal Vesicle	+																					20				
Lumen, Dilatation	3																									1 3.0
Testes	+																					20				
Interstitial Cell, Hyperplasia	1	2		1	1	2	3		1	2	2	1	1	2		1			2		14 1.6					

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	0 4	0 2	0 4	0 4	0 4	0 4	0 4	0 4	0 4	0 4	0 4	0 4	0 3	0 4	0 4	0 4	0 4	0 4	0 4	
ANIMAL ID	0 0	0 0	0 0	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 2	0 2	0 2	0 2	0 3	0 3	0 3	0 4	0 4	0 4
	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Seminiferous Tubule, Degeneration	4										2							4	2	4 3.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Lymph Node Mediastinal, Hemorrhage		+																		1 3.0
Lymph Node, Mandibular Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20 1 2.0
Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell Sinus, Dilatation											2									1 2.0 2 3.0 2 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Spleen Angiectasis Fibrosis Hemorrhage Necrosis Pigmentation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20 1 4.0 1 4.0 1 4.0 1 4.0 2 3.5
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20 19 3.9

INTEGUMENTARY SYSTEM

Mammary Gland Galactocele	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	19 1
------------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	------

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FISCHER 344 RATS-NCTR RATS MALE 0 Vehicle 60 wk	DAY ON TEST																			ANIMAL ID				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0	
	4	2	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	0			
	2	3	2	2	2	2	0	2	2	2	2	0	2	2	2	2	2	2	2	2	2	0		
	0	0	0	0	0	0	7	0	0	0	0	3	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	0	0	0	0	0		
	0	0	0	1	1	1	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	0		
	0	4	5	0	0	0	3	3	6	6	0	4	7	9	4	4	6	0	1	3	0	0		
	2	5	8	2	7	9	2	5	3	5	0	4	9	1	4	5	0	7	5	0	0	2		
	2	2	1	1	1	1	1	2	1	1	2	2	2	1	1	1	2	1	1	1	1	2		
																						* TOTALS		
Alveolus, Dilatation																					3		1 3.0	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20			
Cyst Epithelial Inclusion																					X		1	
MUSCULOSKELETAL SYSTEM																								
Bone																					+		1	
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20			
Skeletal Muscle																					+		1	
Hemorrhage																					4		1 4.0	
Necrosis																					3		1 3.0	
NERVOUS SYSTEM																								
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20			
Compression																					4		1 4.0	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20			
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20			
RESPIRATORY SYSTEM																								
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20			
Histiocytosis																					2		1 2.0	
Infiltration Cellular, Histiocyte	1																					1		3 1.0
Inflammation, Chronic Active																					3		1 3.0	

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	2	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	0
2	3	2	2	2	2	0	2	2	2	2	0	2	2	2	2	2	2	2	2	2	0
0	0	0	0	0	0	7	0	0	0	0	0	3	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	0	0	0	0
0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	4	4	4	0
0	4	5	0	0	0	3	3	6	6	0	4	7	9	4	4	6	0	1	3	0	
2	5	8	2	7	9	2	5	3	5	0	4	9	1	4	5	0	7	5	0	0	
2	2	1	1	1	1	1	2	1	1	2	2	2	1	1	1	2	1	1	1	0	

* TOTALS

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Goblet Cell, Hyperplasia											3										1 3.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

SPECIAL SENSES SYSTEM

Eye	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19
Cataract				1																	1 1.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Infiltration Cellular, Lymphocyte															1						1 1.0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Hydronephrosis					4					3							1				3 2.7
Nephropathy	2	2	3	3	3	3	2	2	2	2	4	1	3	3	2	1	2	3	2	3	20 2.4
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	FISCHER 344 RATS-NCTR RATS MALE	4	4	4	4	4	4	4	4	2
0.02 Furan 60 wk	2	2	2	2	2	2	2	2	6	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	1	1	1	2	3	3	3	4	4	4
	1	3	8	1	0	3	7	3	4	6
	7	0	2	2	5	6	3	2	2	4
	1	1	2	1	2	1	2	1	2	1
* TOTALS										

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Angiectasis	2										1 2.0
Granuloma	1	2	1	2	1	1	1	1		2	9 1.3
Vacuolization Cytoplasmic	1	2		1	1	1	2	2		2	8 1.5
Bile Duct, Biliary Tract, Hyperplasia	1				1					1	3 1.0
Hepatocyte, Necrosis			1								1 1.0
Mesentery									+		1
Fat, Necrosis									4		1 4.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Acinar Cell, Hyperplasia							4				1 4.0
Acinus, Degeneration				3		1					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
 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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.02 Furan 60 wk	DAY ON TEST									
	0 4 2 0	0 4 2 0	0 4 2 0	0 4 2 0	0 4 2 1	0 4 2 0	0 4 2 0	0 4 2 0	0 4 2 0	0 2 6 7
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	1	1	1	2	3	3	3	4	4	4
	1	3	8	1	0	3	7	3	4	6
	7	0	2	2	5	6	3	2	2	4
	1	1	2	1	2	1	2	1	2	4

*** TOTALS**

Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	3	2	1	2	1	1		1		2	8 1.6

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Vacuolization Cytoplasmic										2	1 2.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Pars Distalis, Cyst	X										1
Pars Distalis, Hyperplasia	1		2		1	2		1	1	1	7 1.3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
C-cell, Hyperplasia	1				1		2		1	1	5 1.2

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.02 Furan 60 wk	DAY ON TEST										ANIMAL ID	
	0	0	0	0	0	0	0	0	0	0		
	4	4	4	4	4	4	4	4	2	4		
	2	2	2	2	2	2	2	2	6	2		
	0	0	0	0	1	0	0	0	7	1		
	0	0	0	0	0	0	0	0	0	0		
	1	1	1	2	3	3	3	4	4	4		
	1	3	8	1	0	3	7	3	4	6		
	7	0	2	2	5	6	3	2	2	4		
	1	1	2	1	2	1	2	1	2	1		
												* TOTALS

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10	
Exfoliated Germ Cell										2		1 2.0
Hypospermia										3		1 3.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative	4			2		3				3		4 3.0
Inflammation, Chronic Active		2	1		2		2	2	3			6 2.0
Acinus, Hyperplasia		2										1 2.0
Duct, Ectasia			3	3								2 3.0
Prostate	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Lymphocyte							1					1 1.0
Inflammation, Suppurative	2	1	3	3			1	2	2			7 2.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10	
Testes	+	+	+	+	+	+	+	+	+	+	10	
Interstitial Cell, Hyperplasia	2	2		1	2	2	1	3		2		8 1.9
Seminiferous Tubule, Degeneration					2					4		2 3.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Myeloid Cell, Hyperplasia										2		1 2.0

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.02 Furan 60 wk	DAY ON TEST										ANIMAL ID			
	0	0	0	0	0	0	0	0	0	0				
	4	4	4	4	4	4	4	4	2	4				
	2	2	2	2	2	2	2	2	6	2				
	0	0	0	0	1	0	0	0	7	1				
	0	0	0	0	0	0	0	0	0	0				
	1	1	1	2	3	3	3	4	4	4				
	1	3	8	1	0	3	7	3	4	6				
	7	0	2	2	5	6	3	2	2	4				
	1	1	2	1	2	1	2	1	2	4				
														* TOTALS
Lymph Node, Mandibular Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell Sinus, Dilatation	+	+	+	+	+	+	+	+	+	+				10 1 2.0 1 4.0 1 2.0
Lymph Node, Mesenteric Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+				10 1 2.0
Spleen Hematopoietic Cell Proliferation	+	+	+	+	+	+	+	+	+	+				10 1 1.0
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+				10 8 3.5
INTEGUMENTARY SYSTEM														
Mammary Gland Alveolus, Dilatation	+	+	+	+	+	+	+	+	+	+				10 3 2.3
Skin	+	+	+	+	+	+	+	+	+	+				10
MUSCULOSKELETAL SYSTEM														
Bone, Femur	+	+	+	+	+	+	+	+	+	+				10
NERVOUS SYSTEM														
Brain, Brain Stem Compression	+	+	+	+	+	+	+	+	+	+				10 1 2.0

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.02 Furan 60 wk	DAY ON TEST										ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
	4	4	4	4	4	4	4	4	2	4			
	2	2	2	2	2	2	2	2	6	2			
	0	0	0	0	1	0	0	0	7	1			
	0	0	0	0	0	0	0	0	0	0			
	1	1	1	2	3	3	3	4	4	4			
	1	3	8	1	0	3	7	3	4	6			
	7	0	2	2	5	6	3	2	2	4			
	1	1	2	1	2	1	2	1	2	1			
													* TOTALS
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+			10
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+			10
RESPIRATORY SYSTEM													
Lung	+	+	+	+	+	+	+	+	+	+			10
Nose	+	+	+	+	+	+	+	+	+	+			10
Trachea	+	+	+	+	+	+	+	+	+	+			10
SPECIAL SENSES SYSTEM													
Eye	+	+	+	+	+	+	+	+	+	+			10
Harderian Gland	+	+	+	+	+	+	+	+	+	+			10
URINARY SYSTEM													
Kidney	+	+	+	+	+	+	+	+	+	+			10
Hydronephrosis								1					1 1.0
Nephropathy	2	3	2	3	4	2	2	3	1	3			10 2.5
Urinary Bladder	+	+	+	+	+	+	+	+	+	+			10

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.044 Furan 60wk	DAY ON TEST	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	0	4	4	4	4	4	4	4	4	4			
	2	2	2	2	2	2	2	2	2	2			
	0	0	0	0	0	1	0	0	0	1			
	0	0	1	1	2	2	3	3	4	4			
	0	8	2	7	0	9	6	8	4	5			
	4	7	6	8	3	4	3	4	5	3			
	2	1	2	2	1	1	1	1	1	2			
													* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+			10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+			10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+			10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+			10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+			10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+			10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+			10
Liver	+	+	+	+	+	+	+	+	+	+			10
Granuloma	1		2	2	1	1	2	2	1	1			9 1.4
Mixed Cell Focus									X				1
Tension Lipidosis	4								2				2 3.0
Vacuolization Cytoplasmic	2	2	1	2	2	1	2	2	1	2			10 1.7
Bile Duct, Biliary Tract, Hyperplasia							2						1 2.0
Mesentery							+						1
Fat, Necrosis							4						1 4.0
Pancreas	+	+	+	+	+	+	+	+	+	+			10
Acinus, Degeneration						1							1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+			10

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	4	4	4	4	4	4	4	4	4	4			
FISCHER 344 RATS-NCTR RATS MALE	2	2	2	2	2	2	2	2	2	2			
0.044 Furan 60wk	0	0	0	0	0	0	0	0	0	0			
	0	0	1	1	2	2	3	3	4	4			
	0	8	2	7	0	9	6	8	4	5			
	4	7	6	8	3	4	3	4	5	3			
	2	1	2	2	1	1	1	1	1	2			
											* TOTALS		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+			10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+			10
CARDIOVASCULAR SYSTEM													
Blood Vessel	+	+	+	+	+	+	+	+	+	+			10
Heart	+	+	+	+	+	+	+	+	+	+			10
Cardiomyopathy	1	2	1	1	1	2		1	2	1		9	1.3
Endocardium, Hyperplasia			3									1	3.0
ENDOCRINE SYSTEM													
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+			10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+			10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+			10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+			10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+			10
Pars Distalis, Cyst						X							1
Pars Distalis, Hyperplasia			1			1		2	2			4	1.5
Thyroid Gland	+	+	+	+	+	+	+	+	+	+			10
C-cell, Hyperplasia	1	1	1	1		1	1	1	1	2		9	1.1
GENERAL BODY SYSTEM													

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.044 Furan 60wk	DAY ON TEST										ANIMAL ID
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	1	0	0	0	1	
	0	0	0	0	0	0	0	0	0	0	
	0	0	1	1	2	2	3	3	4	4	
	0	8	2	7	0	9	6	8	4	5	
	4	7	6	8	3	4	3	4	5	3	
	2	1	2	2	1	1	1	1	1	2	
* TOTALS											

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative	3			1	3							3 2.3
Inflammation, Chronic Active		1	2			2	3	2	2	2		7 2.0
Duct, Ectasia						2						1 2.0
Prostate	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative		1						2	2			3 1.7
Inflammation, Chronic Active	2						1					2 1.5
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10	
Testes	+	+	+	+	+	+	+	+	+	+	10	
Interstitial Cell, Hyperplasia	1	1	2	1	1	2	1	2	3	2		10 1.6

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10	
Sinus, Dilatation	2							2				2 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10	
Sinus, Dilatation							3					1 3.0

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
FISCHER 344 RATS-NCTR RATS MALE	2	2	2	2	2	2	2	2	2	2	
0.044 Furan 60wk	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	1	1	2	2	3	3	4	4	
	0	8	2	7	0	9	6	8	4	5	
	4	7	6	8	3	4	3	4	5	3	
	2	1	2	2	1	4	1	4	1	2	
	* TOTALS										
Spleen Pigmentation	+	+	+	+	+	+	+	+	+	+	10 1 4.0
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	10 10 4.0
INTEGUMENTARY SYSTEM											
Mammary Gland Galactocele	M	+	+	+	+	+	+	+	+	+	9 1
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											
Bone, Femur	+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM											
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM											
Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
FISCHER 344 RATS-NCTR RATS MALE	2	2	2	2	2	2	2	2	2	2	
0.044 Furan 60wk	0	0	0	0	0	1	0	0	0	1	
ANIMAL ID	0	0	1	1	2	2	3	3	4	4	
	0	8	2	7	0	9	6	8	4	5	
	4	7	6	8	3	4	3	4	5	3	
	2	1	2	2	1	1	1	1	1	2	
* TOTALS											
Trachea	+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM											
Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Lymphocyte			2		1						2 1.5
Acinus, Degeneration			2								1 2.0
URINARY SYSTEM											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy	2	3	3	2	3	2	1	3	3	3	10 2.5
Polyarteritis								2			1 2.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.092 Furan 60wk	DAY ON TEST	0	0	0	0	0	0	0	0	0	ANIMAL ID		
		4	4	4	3	4	4	4	4	4			
		2	2	2	4	2	2	2	2	2			
		0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0			
		0	0	1	1	1	2	3	4	4			
		2	9	2	5	6	3	1	0	2			
		7	7	3	1	8	9	6	1	5			
		2	1	2	1	1	1	1	2	1			
													* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+			10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+			10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+			10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+			10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+			10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+			10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+			10
Inflammation, Chronic Active						2							1 2.0
Mucosa, Hyperplasia						4							1 4.0
Liver	+	+	+	+	+	+	+	+	+	+			10
Angiectasis					3					2			2 2.5
Granuloma	1	1	2				2		2	1			6 1.5
Tension Lipidosis			2										1 2.0
Vacuolization Cytoplasmic			1	2	2		2	1		2			6 1.7
Bile Duct, Biliary Tract, Hyperplasia							1	1					2 1.0
Hepatocyte, Necrosis								1					1 1.0
Periportal, Cytoplasmic Alteration					2								1 2.0
Mesentery		+					+						2
Fat, Necrosis			4				3						2 3.5

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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: 08:43:51
First Dose M/F: 09/07/09 / NA
Lab: NCTR

DAY ON TEST											ANIMAL ID	* TOTALS
	0	0	0	0	0	0	0	0	0	0		
FISCHER 344 RATS-NCTR RATS MALE 0.092 Furan 60wk	4	4	4	3	4	4	4	4	4	4		
	2	2	2	4	2	2	2	2	2	2		
	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	2	3	4	4	4		
	2	9	2	5	6	3	1	0	2	5		
	7	7	3	1	8	9	6	1	5	8		
	2	1	2	1	1	1	1	2	1	2		
<hr/>												
Pancreas	+	+	+	+	+	+	+	+	+	+		10
Acinus, Degeneration	1					1	1					3 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+		10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+		10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+		10
<hr/>												
CARDIOVASCULAR SYSTEM												
Blood Vessel	+	+	+	+	+	+	+	+	+	+		10
Heart	+	+	+	+	+	+	+	+	+	+		10
Cardiomyopathy	1	1	3	2	1	2	2	2	2	2		10 1.8
<hr/>												
ENDOCRINE SYSTEM												
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+		10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+		10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+		10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+		10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+		10
Pars Distalis, Cyst								X	X			2
Pars Distalis, Hyperplasia						2	2	3				3 2.3

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.092 Furan 60wk	DAY ON TEST										ANIMAL ID
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	3	4	4	4	4	4	4	
	2	2	2	4	2	2	2	2	2	2	
	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	2	3	4	4	4	
	2	9	2	5	6	3	1	0	2	5	
	7	7	3	1	8	9	6	1	5	8	
	2	1	2	1	1	1	1	2	1	2	

* TOTALS

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
C-cell, Hyperplasia		1	1	1	1	2		2			6 1.3

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative	4							3		2	3 3.0
Inflammation, Chronic Active		2	2	2	2	2	1		3		7 2.0
Duct, Ectasia	4		2					3		3	4 3.0
Epithelium, Hyperplasia									4		1 4.0
Prostate	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative	1	2		1	2	1	2	2	1	1	9 1.4
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
Interstitial Cell, Hyperplasia	1	2	3			2	1	2	2	2	8 1.9

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Myeloid Cell, Hyperplasia				2							1 2.0

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

FISCHER 344 RATS-NCTR RATS MALE 0.092 Furan 60wk	DAY ON TEST										* TOTALS		
	0	0	0	0	0	0	0	0	0	0			
ANIMAL ID	4	4	4	3	4	4	4	4	4	4			
	2	2	2	4	2	2	2	2	2	2			
	0	0	0	0	0	0	0	0	0	0			
	0	0	1	1	1	2	3	4	4	4			
	2	9	2	5	6	3	1	0	2	5			
	7	7	3	1	8	9	6	1	5	8			
	2	1	2	1	1	1	1	2	1	2			
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10		
Lymph Node, Mesenteric Hyperplasia, Lymphoid	+	+	+	+							10	2	2.5
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	10	10	3.8
INTEGUMENTARY SYSTEM													
Mammary Gland Galactocele Inflammation, Chronic Active	+	+	+	+							10	1	2.0
Skin	+	+	+	+	+	+	+	+	+	+	10		
MUSCULOSKELETAL SYSTEM													
Bone, Femur	+	+	+	+	+	+	+	+	+	+	10		
NERVOUS SYSTEM													
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	10		
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	10		
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	10		

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

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 Furan
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FISCHER 344 RATS-NCTR RATS MALE 0.092 Furan 60wk	DAY ON TEST										ANIMAL ID	
	0	0	0	0	0	0	0	0	0	0		
	4	4	4	3	4	4	4	4	4	4		
	2	2	2	4	2	2	2	2	2	2		
	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	2	3	4	4	4		
	2	9	2	5	6	3	1	0	2	5		
	7	7	3	1	8	9	6	1	5	8		
	2	1	2	1	1	1	1	2	1	2		
* TOTALS												

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10	
Histiocytosis			1									1 1.0
Infiltration Cellular, Histiocyte	1						1					2 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Suppurative	1											1 1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Lymphocyte					2							1 2.0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Hydronephrosis				3				1				2 2.0
Nephropathy	2	2	3	2	2	2	3	2	3	3		10 2.4
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

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 Furan
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Date Report Requested: 06/03/2014
 Time Report Requested: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.2 Furan 60 wk	DAY ON TEST										ANIMAL ID	
	0	0	0	0	0	0	0	0	0	0		
	4	4	4	1	4	4	4	4	4	4		
	2	2	2	3	2	2	2	2	2	2		
	0	0	0	1	0	0	1	0	0	1		
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	1	2	2	2	3	4	4		
	3	3	5	9	0	5	6	5	1	2		
	4	5	3	4	7	7	0	8	7	0		
	2	1	1	2	2	2	1	2	1	1		
												* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10	
Hemorrhage				3								1 3.0
Inflammation, Suppurative				2								1 2.0
Ulcer				4								1 4.0
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10	
Liver	+	+	+	+	+	+	+	+	+	+	10	
Clear Cell Focus										X		1
Granuloma	1	2	2		1	1	2		1	1		8 1.4
Hepatodiaphragmatic Nodule				X								1
Mixed Cell Focus	X											1
Tension Lipidosis							2	3				2 2.5
Vacuolization Cytoplasmic	1	1	2		2	1	1	1	2	1		9 1.3
Bile Duct, Biliary Tract, Hyperplasia	1											1 1.0
Bile Duct, Subcapsular, Hyperplasia									1			1 1.0
Hepatocyte, Necrosis						1						1 1.0
Subcapsular, Fibrosis	1	1						1	1			4 1.0

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.2 Furan 60 wk	DAY ON TEST										ANIMAL ID			
	0 4 2 0	0 4 2 0	0 4 2 0	0 1 3 1	0 4 2 0	0 4 2 0	0 4 2 0	0 4 2 0	0 4 2 0	0 4 2 0				
	0	0	0	0	0	0	0	0	0	0				
	0	0	0	0	0	0	0	0	0	0				
	3	3	5	9	0	5	6	5	1	2				
	4	5	3	4	7	7	0	8	7	0				
	2	1	1	2	2	2	1	2	1	1				
													* TOTALS	
Subcapsular, Inflammation, Chronic	1	1	1			1	1	1	1	1				8 1.0
Subcapsular, Pigmentation	1	1	1			1	1	1	1	1				8 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+				10
Infiltration Cellular, Lymphocyte				1										1 1.0
Acinus, Degeneration						2	1			3				3 2.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+				10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+				10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+				10
CARDIOVASCULAR SYSTEM														
Blood Vessel	+	+	+	+	+	+	+	+	+	+				10
Heart	+	+	+	+	+	+	+	+	+	+				10
Cardiomyopathy	1	1	1	2	2	2		1	2	2				9 1.6
Adventitia, Inflammation, Suppurative				3										1 3.0
Adventitia, Necrosis				4										1 4.0
ENDOCRINE SYSTEM														
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+				10
Vacuolization Cytoplasmic				2										1 2.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+				10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+				10

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 Species/Strain: RATS/F 344/NCTR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Furan
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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.2 Furan 60 wk	DAY ON TEST										* TOTALS
	0 4 2 0	0 4 2 0	0 4 2 0	0 1 3 1	0 4 2 0	0 4 2 0	0 4 2 0	0 4 2 0	0 4 2 0	0 4 2 0	
ANIMAL ID	0 0 3 4 2	0 0 3 5 1	0 0 5 3 1	0 1 9 4 2	0 2 0 7 2	0 2 5 7 2	0 2 6 0 1	0 3 5 8 2	0 4 1 7 1	0 4 2 0 1	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Pars Distalis, Cyst						X					1
Pars Distalis, Hyperplasia		2	2		2	2				2	5 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
C-cell, Hyperplasia		1	2					1		1	4 1.3
GENERAL BODY SYSTEM											
NONE											
GENITAL SYSTEM											
Epididymis	+	+	+	+	+	+	+	+	+	+	10
Hypospermia						4					1 4.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	2	2	1		2	2	2	2	1	3	9 1.9
Acinus, Hyperplasia	4										1 4.0
Duct, Ectasia	4						3	2	2		4 2.8
Prostate	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative			1			2			1	1	4 1.3
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
Interstitial Cell, Hyperplasia	2	2	2		1	2	2	1	1	3	9 1.8

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

FISCHER 344 RATS-NCTR RATS MALE 0.2 Furan 60 wk	DAY ON TEST										ANIMAL ID			
	0	0	0	0	0	0	0	0	0	0				
	4	4	4	1	4	4	4	4	4	4				
	2	2	2	3	2	2	2	2	2	2				
	0	0	0	1	0	0	1	0	0	1				
	0	0	0	0	0	0	0	0	0	0				
	0	0	0	1	2	2	2	3	4	4				
	3	3	5	9	0	5	6	5	1	2				
	4	5	3	4	7	7	0	8	7	0				
	2	1	1	2	2	2	1	2	1	1				
														* TOTALS
Seminiferous Tubule, Degeneration											4	2	3	3 3.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+			10
Lymph Node, Mandibular Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	2		1 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+			10
Spleen Hyperplasia, Lymphoid Pigmentation	+	+	+	+	+	+	+	+	+	+	2 3		1 2.0 1 3.0
Thymus Atrophy Necrosis	+	+	+	+	+	+	+	+	+	+	4 4 4 4		10 8 4.0 1 4.0

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	M	+	+	+	+	+	+			9
Skin Fibrosis	+	+	+	+	+	+	+	+	+	+	3		10 1 3.0

MUSCULOSKELETAL SYSTEM

Bone, Femur	+	+	+	+	+	+	+	+	+	+			10
Skeletal Muscle											+		1

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

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.2 Furan 60 wk	DAY ON TEST	0	0	0	0	0	0	0	0	0	ANIMAL ID	
		4	4	4	1	4	4	4	4	4		
		2	2	2	3	2	2	2	2	2		
		0	0	0	1	0	0	1	0	1		
		0	0	0	0	0	0	0	0	0		
		0	0	0	1	2	2	2	3	4		
		3	3	5	9	0	5	6	5	1		
		4	5	3	4	7	7	0	8	7		
		2	1	1	2	2	2	1	2	1		
* TOTALS												

Fibrosis 4 1 4.0

NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	10

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Pleura, Inflammation, Suppurative				4							1 4.0
Pleura, Necrosis				4							1 4.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Goblet Cell, Hyperplasia	2										1 2.0
Trachea	+	+	+	+	+	+	+	+	+	+	10

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Hydronephrosis	3						2				2 2.5

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 + .. Tissue examined microscopically
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 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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.2 Furan 60 wk	DAY ON TEST										ANIMAL ID			
	0	0	0	0	0	0	0	0	0	0				
	4	4	4	1	4	4	4	4	4	4				
	2	2	2	3	2	2	2	2	2	2				
	0	0	0	1	0	0	1	0	0	1				
	0	0	0	0	0	0	0	0	0	0				
	0	0	0	1	2	2	2	3	4	4				
	3	3	5	9	0	5	6	5	1	2				
	4	5	3	4	7	7	0	8	7	0				
	2	1	1	2	2	2	1	2	1	1				
													* TOTALS	
Nephropathy	2	1	1		2	3	3	2	3	3				9 2.2
Urinary Bladder	+	+	+	+	+	+	+	+	+	+				10

* .. 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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

DAY ON TEST		0	0	0	0	0	0	0	0	0			
		4	4	4	4	4	4	4	4	4			
FISCHER 344 RATS-NCTR RATS		2	2	2	2	2	2	2	2	2			
MALE		0	0	0	0	0	0	0	0	0			
0.44 Furan 60 wk													
ANIMAL ID		0	0	0	0	0	0	0	0	0			
		0	0	0	1	1	2	2	3	3	4		
		3	4	8	7	9	2	6	5	9	2		
		0	8	2	2	2	5	2	1	6	2		
		1	1	2	1	2	1	2	1	2	2		
											* TOTALS		

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10		
Liver	+	+	+	+	+	+	+	+	+	+	10		
Cholangiofibrosis	1	1	1	1	1	1	1	1	1	2		10	1.1
Granuloma	1	2		2	2		2	1	2	1		8	1.6
Mixed Cell Focus	X											1	
Vacuolization Cytoplasmic		1		1	1				2	2		5	1.4
Bile Duct, Biliary Tract, Hyperplasia									1	1		2	1.0
Bile Duct, Subcapsular, Hyperplasia	1	1	1	1	1	1	2	1	1			9	1.1
Hepatocyte, Hypertrophy	2		2				3		2	2		5	2.2
Hepatocyte, Necrosis							2					1	2.0
Periportal, Cytoplasmic Alteration			1									1	1.0
Subcapsular, Fibrosis	1	1	1	1	1	1	2	1	1			9	1.1
Subcapsular, Inflammation, Chronic	1	1	1	1	1	1	2	1	1			9	1.1
Subcapsular, Pigmentation	1	1	1	1	1	1	2	1	1			9	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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.44 Furan 60 wk	DAY ON TEST										ANIMAL ID			
	0	0	0	0	0	0	0	0	0	0				
	4	4	4	4	4	4	4	4	4	4				
	2	2	2	2	2	2	2	2	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	1	1	2	2	3	3	4				
	3	4	8	7	9	2	6	5	9	2				
	0	8	2	2	2	5	2	1	6	2				
	1	1	2	1	2	1	2	1	2	2				
														* TOTALS
Pancreas	+	+	+	+	+	+	+	+	+	+				10
Infiltration Cellular, Lymphocyte			1											1 1.0
Acinus, Degeneration			1			2	2							3 1.7
Salivary Glands	+	+	+	+	+	+	+	+	+	+				10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+				10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+				10
CARDIOVASCULAR SYSTEM														
Blood Vessel	+	+	+	+	+	+	+	+	+	+				10
Heart	+	+	+	+	+	+	+	+	+	+				10
Cardiomyopathy	1	1	2	1	1	1	1	2	2	3				10 1.5
ENDOCRINE SYSTEM														
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+				10
Vacuolization Cytoplasmic										2				1 2.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+				10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+				10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+				10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+				10
Pars Distalis, Cyst				X	X					X				3

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.44 Furan 60 wk	DAY ON TEST										ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
	4	4	4	4	4	4	4	4	4	4			
	2	2	2	2	2	2	2	2	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	1	1	2	2	3	3	4			
	3	4	8	7	9	2	6	5	9	2			
	0	8	2	2	2	5	2	1	6	2			
	1	1	2	1	2	1	2	1	2	2			
* TOTALS													

Pars Distalis, Hyperplasia											1		1 1.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+			10
C-cell, Hyperplasia	2	2			1					1			4 1.5

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+			10
Exfoliated Germ Cell											2		1 2.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+			10
Fibrosis													1 2.0
Inflammation, Suppurative											4	4	3 4.0
Inflammation, Chronic Active	2	2		2	2	2			2	3			7 2.1
Acinus, Hyperplasia											3		1 3.0
Duct, Ectasia											4	4	5 3.8
Prostate	+	+	+	+	+	+	+	+	+	+			10
Degeneration, Cystic													1 1.0
Inflammation, Suppurative	2	2		2		3	1	1	2	1			8 1.8
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+			10
Testes	+	+	+	+	+	+	+	+	+	+			10
Interstitial Cell, Hyperplasia	1	1			2		3	2	2	2			7 1.9
Seminiferous Tubule, Degeneration											2		1 2.0

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	FISCHER 344 RATS-NCTR RATS MALE	4	4	4	4	4	4	4	4	4
0.44 Furan 60 wk	2	2	2	2	2	2	2	2	2	2
	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	1	1	2	2	3	3	4
	3	4	8	7	9	2	6	5	9	2
	0	8	2	2	2	5	2	1	6	2
	1	1	2	1	2	1	2	1	2	2
* TOTALS										

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Lymphoid										2	1 2.0
Infiltration Cellular, Plasma Cell			3								1 3.0
Sinus, Dilatation									2		1 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Lymphoid									2		1 2.0
Spleen	+	+	+	+	+	+	+	+	+	+	10
Pigmentation									2		1 2.0
Thymus	+	+	+	+	+	+	+	+	+	+	10
Atrophy	4	3	4	4	4	4	4	4	4	3	10 3.8

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Galactocele						X					1
Alveolus, Dilatation			2								1 2.0
Epithelium, Hyperplasia						2					1 2.0
Skin	+	+	+	+	+	+	+	+	+	+	10

MUSCULOSKELETAL SYSTEM

Bone, Femur	+	+	+	+	+	+	+	+	+	+	10
-------------	---	---	---	---	---	---	---	---	---	---	-----------

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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
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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	ANIMAL ID
	4	4	4	4	4	4	4	4	4	4	
2	2	2	2	2	2	2	2	2	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	1	1	2	2	3	3	4		
3	4	8	7	9	2	6	5	9	2		
0	8	2	2	2	5	2	1	6	2		
1	1	2	1	2	1	2	1	2	2		
* TOTALS											

NERVOUS SYSTEM

Brain, Brain Stem Compression	+	+	+	+	+	+	+	+	+	+	10	1	4.0
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	10		
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	10		
Brain, NOS										+	1		

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10		
Nose	+	+	+	+	+	+	+	+	+	+	10		
Trachea	+	+	+	+	+	+	+	+	+	+	10		

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10		

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10		
Nephropathy	2	3	3	2	3	2	3	2	3	2	10	2.5	

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID	
	4	4	4	4	4	4	4	4	4	4		
FISCHER 344 RATS-NCTR RATS MALE	2	2	2	2	2	2	2	2	2	2		
0.44 Furan 60 wk	0	0	0	0	0	0	0	0	0	0		
	0	0	0	1	1	2	2	3	3	4		
	3	4	8	7	9	2	6	5	9	2		
	0	8	2	2	2	5	2	1	6	2		
	1	1	2	1	2	1	2	1	2	2		
	* TOTALS											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+		10

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.92 Furan 60 wk	DAY ON TEST										ANIMAL ID
	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	1	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	1	1	2	2	3	4	
	1	7	7	8	0	8	2	4	9	0	
	4	0	8	0	6	7	0	3	0	4	
	1	1	2	1	2	1	2	2	1	4	
											* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Cholangiofibrosis	2	1	2	1	2	1	2	1	2	2	10 1.6
Clear Cell Focus			X								1
Granuloma	2	2	2		2		1	2	1	2	8 1.8
Mixed Cell Focus			X		X			X			3
Vacuolization Cytoplasmic	2	2	3		2	2	2	2	2	2	9 2.1
Bile Duct, Biliary Tract, Hyperplasia			1	1				2			3 1.3
Bile Duct, Subcapsular, Hyperplasia	2	1	1	1	2	1	2	2	1	2	10 1.5
Hepatocyte, Hypertrophy			2	1	2					1	4 1.5
Hepatocyte, Necrosis	1										1 1.0
Oval Cell, Hyperplasia			2	1		1					3 1.3
Periportal, Cytoplasmic Alteration			2	2	2	1	1	2	1		7 1.6
Subcapsular, Fibrosis	2	1	1	1	2	1	2	2	1	2	10 1.5
Subcapsular, Inflammation, Chronic	2	1	1	1	2	1	2	2	1	2	10 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
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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.92 Furan 60 wk	DAY ON TEST										ANIMAL ID		
	0	0	0	0	0	0	0	0	0	0			
	4	4	4	4	4	4	4	4	4	4			
	2	2	2	2	2	2	2	2	2	2			
	0	0	0	0	0	0	0	1	0	0			
	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	1	1	2	2	3	4			
	1	7	7	8	0	8	2	4	9	0			
	4	0	8	0	6	7	0	3	0	4			
	1	1	2	1	2	1	2	3	1	4			
													* TOTALS
Subcapsular, Pigmentation	2	1	1	1	2	1	2	2	1	2			10 1.5
Pancreas	+	+	+	+	+	+	+	+	+	+			10
Acinus, Degeneration	1					1		2	1				4 1.3
Salivary Glands	+	+	+	+	+	+	+	+	+	+			10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+			10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+			10
CARDIOVASCULAR SYSTEM													
Blood Vessel	+	+	+	+	+	+	+	+	+	+			10
Heart	+	+	+	+	+	+	+	+	+	+			10
Cardiomyopathy	1	3	2		2	1	2	2	1	2			9 1.8
ENDOCRINE SYSTEM													
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+			10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+			10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+			10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+			10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+			10
Pars Distalis, Cyst			X	X			X		X				4

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.92 Furan 60 wk	DAY ON TEST										ANIMAL ID					
	0	0	0	0	0	0	0	0	0	0						
	4	4	4	4	4	4	4	4	4	4						
	2	2	2	2	2	2	2	2	2	2						
	0	0	0	0	0	0	0	1	0	0						
	0	0	0	0	0	0	0	0	0	0						
	0	0	0	0	1	1	2	2	3	4						
	1	7	7	8	0	8	2	4	9	0						
	4	0	8	0	6	7	0	3	0	4						
	1	1	2	1	2	1	2	2	1	4						
																* TOTALS
Pars Distalis, Hyperplasia	2		2	2	1			1	2							6 1.7
Thyroid Gland	+	+	+	+	+	+	+	+	+	+						10
Ultimobranchial Cyst			X													1
C-cell, Hyperplasia	2	2	1	1		2	2									6 1.7

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+						10
Exfoliated Germ Cell						2			2	3						3 2.3
Hypospermia			4			3			2							3 3.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+						10
Inflammation, Suppurative			2						4	4						3 3.3
Inflammation, Chronic Active	2	3		2	2	3	2	2								7 2.3
Duct, Ectasia			4						4	4						3 4.0
Prostate	+	+	+	+	+	+	+	+	+	+						10
Infiltration Cellular, Lymphocyte						1										1 1.0
Inflammation, Suppurative				2				2		1						3 1.7
Epithelium, Hyperplasia									1							1 1.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+						10
Inflammation, Suppurative				3												1 3.0
Testes	+	+	+	+	+	+	+	+	+	+						10
Interstitial Cell, Hyperplasia	2	2		2	1	1	2		2	2						8 1.8

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	4	4	4	4	4	4	4	4	4	4			
FISCHER 344 RATS-NCTR RATS MALE	2	2	2	2	2	2	2	2	2	2			
0.92 Furan 60 wk	0	0	0	0	0	0	0	1	0	0			
	0	0	0	0	1	1	2	2	3	4			
	1	7	7	8	0	8	2	4	9	0			
	4	0	8	0	6	7	0	3	0	4			
	1	1	2	1	2	1	2	2	1	4			
											* TOTALS		
Seminiferous Tubule, Degeneration	4		4		4		3					4	3.8

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+			10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+			10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+			10
Spleen Pigmentation	+	+	+	+	+	+	+	+	+	+	2		10 1 2.0
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	2 4 4 4		10 9 3.7

INTEGUMENTARY SYSTEM

Mammary Gland Alveolus, Dilatation	+	+	+	+	+	+	+	+	+	+	1		10 1 1.0
Skin Abscess	+	+	+	+	+	+	+	+	+	+	4		10 1 4.0

MUSCULOSKELETAL SYSTEM

Bone, Femur	+	+	+	+	+	+	+	+	+	+			10
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NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+			10
-------------------	---	---	---	---	---	---	---	---	---	---	--	--	-----------

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	
FISCHER 344 RATS-NCTR RATS MALE	2	2	2	2	2	2	2	2	2	2	
0.92 Furan 60 wk	0	0	0	0	0	0	0	1	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	1	1	2	2	3	4	
	1	7	7	8	0	8	2	4	9	0	
	4	0	8	0	6	7	0	3	0	4	
	1	1	2	1	2	1	2	3	1	4	
	* TOTALS										
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	10
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM											
Lung	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte			4	2	2		1				4 2.3
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM											
Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Lymphocyte		2									1 2.0
URINARY SYSTEM											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy	2	3	2	3	4	2	3	3	2	3	10 2.7
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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 Species/Strain: RATS/F 344/NCTR

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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 2 Furan 60 wk	DAY ON TEST										ANIMAL ID	
	0	0	0	0	0	0	0	0	0	0		
	4	4	4	0	4	4	4	0	4	4		
	2	2	2	1	2	2	2	2	2	2		
	0	0	1	1	0	0	0	3	0	1		
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	2	2	3	3	3	3	3		
	1	1	9	1	3	4	4	7	8	8		
	8	9	3	5	2	1	3	6	6	9		
	1	1	2	1	2	2	2	1	1	2		
											* TOTALS	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10	
Periesophageal Tissue, Inflammation, Suppurative								2				1 2.0
Intestine Large, Cecum	+	+	+	+	+	+	+	A	+	+	9	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10	
Intestine Large, Rectum	+	+	+	+	+	+	+	A	+	+	9	
Intestine Small, Duodenum	+	+	+	+	+	+	+	A	+	+	9	
Intestine Small, Ileum	+	+	+	+	+	+	+	A	+	+	9	
Intestine Small, Jejunum	+	+	+	+	+	+	+	A	+	+	9	
Liver	+	+	+	+	+	+	+	+	+	+	10	
Angiectasis		4				4					2 4.0	
Cholangiofibrosis	2	1	2		2	2	2		3	3	8 2.1	
Clear Cell Focus						X					1	
Eosinophilic Focus			X								1	
Granuloma	2	3	2		2	2	3		3	2	8 2.4	
Mixed Cell Focus	X	X				X	X		X	X	6	
Tension Lipidosis		4								2	2 3.0	
Vacuolization Cytoplasmic	2	3	4	1		3	3		3	3	8 2.8	
Bile Duct, Biliary Tract, Hyperplasia	3	2	3		4	2	2		2	2	8 2.5	
Bile Duct, Subcapsular, Hyperplasia	1	2	2		2	2	2			2	7 1.9	
Capsule, Fibrosis		2									1 2.0	

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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: 08:43:51
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 2 Furan 60 wk	DAY ON TEST										ANIMAL ID				
	0 4 2 0	0 4 2 0	0 4 2 0	0 0 1 1	0 4 2 0	0 4 2 0	0 4 2 0	0 4 2 0	0 0 3 2	0 4 2 0					
	0	0	0	0	0	0	0	0	0	0	0 0 1 8 1				
	3	3	2		2	1	3		2	1					
Hepatocyte, Hypertrophy															8 2.1
Hepatocyte, Necrosis						1									1 1.0
Oval Cell, Hyperplasia	3		2		2	2	3		2	2					7 2.3
Periportal, Cytoplasmic Alteration	2	2	2		2	2	2		2	2					8 2.0
Subcapsular, Fibrosis	1	2	2		2	2	2			2					7 1.9
Subcapsular, Inflammation, Chronic	1	2	2		2	2	2			2					7 1.9
Subcapsular, Pigmentation	1	2	2		2	2	2			2					7 1.9
Pancreas	+	+	+	+	+	+	+	+	+	+					10
Acinus, Degeneration			2							2					2 2.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+					10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+					10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+					10
CARDIOVASCULAR SYSTEM															
Blood Vessel	+	+	+	+	+	+	+	+	+	+					10
Adventitia, Hemorrhage									2						1 2.0
Adventitia, Necrosis									2						1 2.0
Heart	+	+	+	+	+	+	+	+	+	+					10
Cardiomyopathy		2	1	1	2	1	1		1	2					8 1.4
Pericardium, Foreign Body									X						1
Pericardium, Inflammation, Suppurative									2						1 2.0
Pericardium, Necrosis									4						1 4.0
ENDOCRINE SYSTEM															

* TOTALS

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 Furan
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FISCHER 344 RATS-NCTR RATS MALE 2 Furan 60 wk	DAY ON TEST										ANIMAL ID	
	0 4 2 0	0 4 2 0	0 4 2 1	0 0 1 1	0 4 2 0	0 4 2 0	0 4 2 0	0 0 2 0	0 4 2 3	0 4 2 0		
	0	0	0	0	0	0	0	0	0	0	0 0 1 8 1	
	0	0	0	0	0	0	0	0	0	0	0 0 1 8 1	
	0	0	0	2	2	3	3	3	3	3	0 0 1 8 1	
	0	0	9	1	3	4	4	7	8	8	0 0 1 8 1	
	0	0	3	5	2	1	3	6	6	9	0 0 1 8 1	
	0	0	2	1	2	2	2	1	1	2	0 0 1 8 1	
												* TOTALS

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+		10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+		10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+		10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+		10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+		10
Pars Distalis, Cyst		X						X				2
Pars Distalis, Hyperplasia	1	1			1		1					4 1.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+		10
C-cell, Hyperplasia					2			1				2 1.5

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+		10
Preputial Gland	+	+	+	+	+	+	+	+	+	+		10
Inflammation, Suppurative		4										1 4.0
Inflammation, Chronic Active	3				2	2	4		2	2		6 2.5
Acinus, Hyperplasia							3					1 3.0
Prostate	+	+	+	+	+	+	+	+	+	+		10
Inflammation, Suppurative	2		1			2				1		4 1.5

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 Species/Strain: RATS/F 344/NCTR

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 Furan
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FISCHER 344 RATS-NCTR RATS MALE 2 Furan 60 wk	DAY ON TEST										ANIMAL ID			
	0 4 2 0	0 4 2 0	0 4 2 1	0 0 1 1	0 4 2 0	0 4 2 0	0 4 2 0	0 0 2 0	0 4 2 3	0 4 2 0				
	0 0 1 8 1	0 0 1 9 1	0 0 9 3 2	0 2 1 5 1	0 2 3 2 2	0 2 4 1 2	0 3 4 3 2	0 3 4 6 2	0 3 7 6 1	0 3 8 6 1	0 3 8 9 2			
												* TOTALS		
Seminal Vesicle	+ + + + + + + + + +											10		
Testes	+ + + + + + + + + +											10		
Interstitial Cell, Hyperplasia	1	1			2	2	2		2	1			7	1.6
HEMATOPOIETIC SYSTEM														
Bone Marrow	+ + + + + + + + + +											10		
Myeloid Cell, Hyperplasia											2		1	2.0
Lymph Node, Mandibular	+ + + + + + + + + +											10		
Hyperplasia, Lymphoid											2		1	2.0
Lymph Node, Mesenteric	+ + + + + + + + + +											10		
Hyperplasia, Lymphoid											2		1	2.0
Spleen	+ + + + + + + + + +											10		
Hematopoietic Cell Proliferation											2		1	2.0
Capsule, Fibrosis											2		1	2.0
Thymus	+ + + + + + + + + +											10		
Atrophy	3	3	4		4	4	4		4				7	3.7
Adventitia, Inflammation, Suppurative													1	3.0
Adventitia, Necrosis													1	3.0
INTEGUMENTARY SYSTEM														
Mammary Gland	+ + + + + + + + + +											10		
Skin	+ + + + + + + + + +											10		

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	FISCHER 344 RATS-NCTR RATS MALE	4	4	4	0	4	4	4	0	4
2 Furan 60 wk	2	2	2	1	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	2	2	3	3	3	3	3
	1	1	9	1	3	4	4	7	8	8
	8	9	3	5	2	1	3	6	6	9
	1	1	2	1	2	2	2	1	1	2
* TOTALS										

Cyst Epithelial Inclusion

X

1

MUSCULOSKELETAL SYSTEM

Bone, Femur

+ + + + + + + + + +

10

NERVOUS SYSTEM

Brain, Brain Stem

+ + + + + + + + + +

10

Brain, Cerebellum

+ + + + + + + + + +

10

Brain, Cerebrum

+ + + + + + + + + +

10

RESPIRATORY SYSTEM

Lung

+ + + + + + + + + +

10

Congestion

4

1 4.0

Infiltration Cellular, Histiocyte

1 1

2 1.0

Pleura, Foreign Body

X

1

Pleura, Inflammation, Suppurative

4

1 4.0

Pleura, Necrosis

4

1 4.0

Nose

+ + + + + + + + + +

10

Trachea

+ + + + + + + + + +

10

SPECIAL SENSES SYSTEM

Eye

+ + + + + + + + + +

10

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID		
	4	4	4	0	4	4	4	0	4	4			
FISCHER 344 RATS-NCTR RATS MALE	2	2	2	1	2	2	2	2	2	2			
2 Furan 60 wk	0	0	0	0	0	0	0	0	0	0			
	0	0	0	2	2	3	3	3	3	3			
	1	1	9	1	3	4	4	7	8	8			
	8	9	3	5	2	1	3	6	6	9			
	1	1	2	1	2	2	2	6	1	2			
											* TOTALS		
Harderian Gland	+	+	+	+	+	+	+	+	+	+		10	
Infiltration Cellular, Lymphocyte	2						1			1		3	1.3
URINARY SYSTEM													
Kidney	+	+	+	+	+	+	+	+	+	+		10	
Hydronephrosis				1	1				2			3	1.3
Nephropathy	2	3	3		2	3	2		3	3		8	2.6
Urinary Bladder	+	+	+	+	+	+	+	+	+	+		10	
Hemorrhage				3								1	3.0
Lumen, Dilatation				4								1	4.0

*** END OF REPORT ***

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