

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: 08:44:34
First Dose M/F: 09/07/09 / NA
Lab: NCTR

36 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 017 0 Vehicle 36 wk	Include 018 0.02 Furan 36 wk	Include 019 0.044 Furan 36wk
	Include 020 0.092 Furan 36wk	Include 021 0.2 Furan 36 wk	Include 022 0.44 Furan 36 wk
	Include 023 0.92 Furan 36 wk	Include 024 2 Furan 36 wk	

Study Gender: Male

TDMSE Version: 3.0.2.0_001

PWG Approval Date: NONE

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Basophilic Focus																X						1	
Deformity			X																			1	
Granuloma		2	1	1	1	1			1	1		1		1			1	2				12	1.2
Necrosis, Focal				1																		1	1.0
Tension Lipidosis									4													1	4.0
Vacuolization Cytoplasmic			2		1	1			1	1		1	1	1	1			1	1			11	1.1
Bile Duct, Biliary Tract, Hyperplasia											1											1	1.0
Mesentery									+													1	
Fat, Necrosis									4													1	4.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Infiltration Cellular, Lymphocyte										1											1	2	1.0

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FISCHER 344 RATS-NCTR RATS MALE 0 Vehicle 36 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		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
	3	2	2	2	2	3	2	2	3	2	2	2	2	2	2	3	2	2	3	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	2	2	2	2	2	3	3	3	4	4	0	
	2	4	5	7	0	1	3	6	7	9	1	4	5	7	9	3	3	8	2	3	0	
	0	4	5	3	4	5	4	2	4	9	9	6	5	0	0	2	5	0	9	7	0	
	2	2	2	1	2	2	2	1	1	2	1	2	2	2	1	1	1	1	2	2	0	
																						* TOTALS
Acinus, Degeneration	1																					1 1.0
Salivary Glands	+ + + + + + + + + + + + + + + + + + + +																					20
Stomach, Forestomach	+ + + + + + + + + + + + + + + + + + + +																					20
Stomach, Glandular	+ + + + + + + + + + + + + + + + + + + +																					20
CARDIOVASCULAR SYSTEM																						
Blood Vessel	+ + + + + + + + + + + + + + + + + + + +																					20
Heart	+ + + + + + + + + + + + + + + + + + + +																					20
Cardiomyopathy	2	1	2	2	1	1		1	4	2	2	1	1	1	1	1	1	1	1	1		19 1.4
ENDOCRINE SYSTEM																						
Adrenal Cortex	+ + + + + + + + + + + + + + + + + + + +																					20
Adrenal Medulla	+ + + + + + + + + + + + + + + + + + + +																					20
Islets, Pancreatic	+ + + + + + + + + + + + + + + + + + + +																					20
Parathyroid Gland	+ + + + + + + + + + + + + + + + + + + +																					20
Pituitary Gland	+ + + + + + + + + + + + + + + + + + + +																					20
Pars Distalis, Cyst																X	X		2			
Pars Distalis, Hyperplasia																	2		2 2.0			
Thyroid Gland	+ + + + + + + + + + + + + + + + + + + +																					20

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	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	0	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
3	2	2	2	2	2	3	2	2	3	2	2	2	2	2	2	2	3	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	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	4	4	0	
2	4	5	7	0	1	3	6	7	9	1	4	5	7	9	3	3	8	2	3	2		
0	4	5	3	4	5	4	2	4	9	9	6	5	0	2	5	0	9	7	7	0		
2	2	2	1	2	2	2	1	2	1	2	2	2	2	1	1	1	1	1	2	2		
Spleen Pigmentation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	1 3.0
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	6 2.5
INTEGUMENTARY SYSTEM																						
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Skin Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	2 3.5
MUSCULOSKELETAL SYSTEM																						
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
NERVOUS SYSTEM																						
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
RESPIRATORY SYSTEM																						
Lung Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	2 1.0

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
3	2	2	2	2	2	3	2	2	3	2	2	2	2	2	2	2	3	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	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	4	4	0	
2	4	5	7	0	1	3	6	7	9	1	4	5	7	9	3	3	8	2	3	2		
0	4	5	3	4	5	4	2	4	9	9	6	5	0	2	5	0	9	7	7	2		
2	2	2	1	2	2	2	2	1	2	1	2	2	2	1	1	1	1	1	2		* TOTALS	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
SPECIAL SENSES SYSTEM																						
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Degeneration															3					1	3.0	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Infiltration Cellular, Lymphocyte			1					1							1				1	4	1.0	
URINARY SYSTEM																						
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Hydronephrosis	2						1		1			2			2		2			6	1.7	
Nephropathy	1	1	2	2	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1	20	1.2	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Granuloma	1	1		1	1	2			1	1	1	1	1		2	1	1	1	1		16	1.1
Hepatodiaphragmatic Nodule															X						1	
Inflammation, Chronic Active												1	1								2	1.0
Vacuolization Cytoplasmic	1	1			2	1			1	1	1			1		1		1	1		11	1.1
Bile Duct, Biliary Tract, Hyperplasia						1															1	1.0
Hepatocyte, Necrosis						2		1					1	1					1		5	1.2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Infiltration Cellular, Lymphocyte													1		1						2	1.0
Acinus, Degeneration	1	2																			2	1.5
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		

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FISCHER 344 RATS-NCTR RATS MALE 0.02 Furan 36 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			
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0		
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0		
	2	3	2	2	2	2	3	2	2	2	2	2	2	2	3	2	2	2	3	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	2	2	2	2	3	3	3	4	4	4	4	4	0		
	0	1	3	7	1	3	4	8	1	7	7	8	0	0	3	1	3	4	6	6	0		
	8	1	8	5	6	7	4	1	1	4	7	3	2	8	9	0	5	1	3	6	0		
	1	2	1	1	1	2	1	1	2	2	1	1	2	1	1	1	2	1	1	1	0		
																						* TOTALS	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
CARDIOVASCULAR SYSTEM																							
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Cardiomyopathy	2	2	1	3	1	2	2	1		1	1	1		1	1	1	1	1	1	1			18 1.3
ENDOCRINE SYSTEM																							
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			19
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Pars Distalis, Angiectasis																2							1 2.0
Pars Distalis, Cyst															X								1
Pars Distalis, Hyperplasia												2					4						2 3.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Ultimobranchial Cyst							X																1
Follicle, Cyst			X																				1

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Inflammation, Suppurative			3	4					4	3											4 3.5
Inflammation, Chronic Active		2			2	3	2					2	2	2	3	2		3	2		11 2.3
Acinus, Hyperplasia									4												1 4.0
Duct, Ectasia			2			3			4					3							4 3.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Inflammation, Suppurative	1															2			2		3 1.7
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Interstitial Cell, Hyperplasia												2									1 2.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Myeloid Cell, Hyperplasia																	3				1 3.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	

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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

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		
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
2	3	2	2	2	2	2	3	2	2	2	2	2	2	2	3	2	2	2	3	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	2	2	2	2	3	3	3	4	4	4	4	4	0	
	0	1	3	7	1	3	4	8	1	7	7	8	0	0	3	1	3	4	6	6	0	
	8	1	8	5	6	7	4	1	1	4	7	3	2	8	9	0	5	1	3	6	0	
	1	2	1	1	1	2	1	1	2	2	1	1	2	2	1	1	2	1	1	1	0	
																						* TOTALS
Spleen Pigmentation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	1 2.0
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	7 2.4
INTEGUMENTARY SYSTEM																						
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Skin Cyst Epithelial Inclusion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	1
MUSCULOSKELETAL SYSTEM																						
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
NERVOUS SYSTEM																						
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
RESPIRATORY SYSTEM																						
Lung Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	3 1.7

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DAY ON TEST	FISCHER 344 RATS-NCTR RATS MALE																				ANIMAL ID	* TOTALS
	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	0	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
2	3	2	2	2	2	2	3	2	2	2	2	2	2	2	3	2	2	2	3	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	1	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	0	
0	1	3	7	1	3	4	8	1	7	7	8	0	0	3	1	3	4	6	6	0		
8	1	8	5	6	7	4	1	1	4	7	3	2	8	9	0	5	1	3	6	8		
1	2	1	1	1	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	1		
																						* TOTALS
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
SPECIAL SENSES SYSTEM																						
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Infiltration Cellular, Lymphocyte													1									1 1.0
URINARY SYSTEM																						
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Hydronephrosis				2																1		2 1.5
Nephropathy		2	2	2	1	1		1	1	1	1	1	2	1	1	1		1	2	1		17 1.3
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20

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 Species/Strain: RATS/F 344/NCTR

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

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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	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0
3	2	2	2	2	2	3	2	2	2	2	2	2	2	2	3	2	2	2	3	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	2	2	2	2	2	3	3	3	3	4	4	4	0
0	6	6	2	4	4	5	7	0	2	3	8	8	2	2	6	8	4	5	5	0	
7	0	2	4	1	3	3	7	1	8	0	5	7	0	2	6	3	4	2	4	0	
1	2	2	2	1	1	1	1	1	1	1	2	1	2	1	1	1	2	2	1	0	
																				* TOTALS	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Granuloma		1		1		2	2	1	1		1	1	1	1	1	1	1	1	1		16	1.1
Vacuolization Cytoplasmic Hepatocyte, Necrosis	1	2		1		2	1				1		1	1	2	1	1	1	1		14	1.2
Hepatocyte, Necrosis		1			1		1						1								4	1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Infiltration Cellular, Lymphocyte					1														1		2	1.0
Acinus, Degeneration													2	1							2	1.5
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		

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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

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	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0
3	2	2	2	2	2	3	2	2	2	2	2	2	2	2	3	2	2	2	3	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	2	2	2	2	2	3	3	3	3	4	4	4	0
0	6	6	2	4	4	5	7	0	2	3	8	8	2	2	6	8	4	5	5	0	
7	0	2	4	1	3	3	7	1	8	0	5	7	0	2	6	3	4	2	4	0	
1	2	2	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1	0	
																				* TOTALS	

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Cardiomyopathy	2	1	2	2		1	1	1	1	2	1	1	1	2		1	4	1	1	1	18 1.4

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Pars Distalis, Hyperplasia															2						1 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

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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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
3	3	2	2	2	2	3	2	2	2	2	2	2	2	2	3	2	2	2	3	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	2	2	2	2	2	3	3	3	3	4	4	4	0	
0	6	6	2	4	4	5	7	0	2	3	8	8	2	2	6	8	4	4	5	5	0	
7	0	2	4	1	3	3	3	7	1	8	0	5	7	0	2	6	3	4	2	4	7	
1	2	2	2	1	1	3	1	1	1	1	1	2	1	2	1	1	1	2	1	1		
Inflammation, Suppurative	2			4		3			4									3		5	3.2	
Inflammation, Chronic Active Duct, Ectasia			1	2		2			2		1	2			2	1	2		2	10	1.7	
				4					2		4		2							4	3.0	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Infiltration Cellular, Lymphocyte											1									1	1.0	
Inflammation, Suppurative	1			1	1						2			1	1			1	1	8	1.1	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
HEMATOPOIETIC SYSTEM																						
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Myeloid Cell, Hyperplasia								2												1	2.0	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Hyperplasia, Lymphoid					3															1	3.0	
Infiltration Cellular, Plasma Cell					2				3											2	2.5	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Fibrosis								2												1	2.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Atrophy				3	2		2	2		2		3	2		3	2		3	2	11	2.4	
Hemorrhage																		2		1	2.0	

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0
3	2	2	2	2	2	3	2	2	2	2	2	2	2	2	3	2	2	2	3	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	2	2	2	2	2	3	3	3	3	4	4	4	0
0	6	6	2	4	4	5	7	0	2	3	8	8	2	2	6	8	4	4	5	5	0
7	0	2	4	1	3	3	7	1	8	0	5	7	0	2	6	3	4	2	4	4	0
1	2	2	2	1	1	1	1	1	1	2	1	1	2	1	1	1	1	2	1	1	0
																				* TOTALS	

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	18
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Fibrosis																			3	+	1 3.0

MUSCULOSKELETAL SYSTEM

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Congestion										2											1 2.0
Infiltration Cellular, Histiocyte										1											2 1.5
Inflammation, Chronic					2																1 2.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

* .. 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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

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	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	0
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0
3	2	2	2	2	2	3	2	2	2	2	2	2	2	2	3	2	2	2	2	2	3	2	2	0
* TOTALS																								

SPECIAL SENSES SYSTEM

Ear																					+	1	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Hydronephrosis																					2	1	2.0	
Nephropathy	1	2	2	2		1	1	1	1	1	1	1	1	2	1	2	1	1	1				18	1.3
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	

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 + .. Tissue examined microscopically
 X .. Lesion present
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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Angiectasis										1												1	1.0
Basophilic Focus	X																					1	
Deformity															X							1	
Granuloma	1	1	1	1	1	2	1	1	1	2	1	1	2		2	1	1	1	1	1	19	1.2	
Tension Lipidosis										2											1	2.0	
Vacuolization Cytoplasmic			1			2	1	1	1		1	1	2		1	1	1	1	1	1	14	1.1	
Bile Duct, Biliary Tract, Hyperplasia																				1	1	1.0	
Hepatocyte, Necrosis													1						1		2	1.0	
Mesentery				+											+		+				3		
Thrombosis																	X					1	
Fat, Necrosis				3											3		3					3	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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

DAY ON TEST	FISCHER 344 RATS-NCTR RATS MALE																				ANIMAL ID	* TOTALS
	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	0	20
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	20
2	3	2	2	2	3	2	2	2	2	2	2	2	2	3	2	2	2	3	2	0	20	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	4	0	20
2	2	6	9	2	4	5	6	3	6	9	9	1	3	9	0	2	5	6	7	7	0	20
4	6	5	6	2	8	0	6	7	5	7	9	1	0	8	0	3	6	9	1	1	0	20
1	2	2	2	1	2	2	1	2	1	2	2	2	2	1	1	1	1	1	1	1	0	20
Pancreas																					20	
Infiltration Cellular, Lymphocyte																						1 1.0
Acinus, Degeneration																						1 1.0
Salivary Glands																					20	
Stomach, Forestomach																					20	
Epithelium, Degeneration																						1 1.0
Stomach, Glandular																					20	
CARDIOVASCULAR SYSTEM																						
Blood Vessel																					20	
Heart																					20	
Cardiomyopathy																						19 1.4
ENDOCRINE SYSTEM																						
Adrenal Cortex																					20	
Adrenal Medulla																					20	
Islets, Pancreatic																					20	
Parathyroid Gland																					20	
Pituitary Gland																					20	
Pars Distalis, Angiectasis																						1 4.0

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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.092 Furan 36wk	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		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
	2	3	2	2	2	3	2	2	2	2	2	2	2	2	3	2	2	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	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	4	0	
	2	2	6	9	2	4	5	6	3	6	9	9	1	3	9	0	2	5	6	7	0	
	4	6	5	6	2	8	0	6	7	5	7	9	1	0	8	0	3	6	9	1	0	
	1	2	2	2	1	2	2	1	2	1	2	2	2	2	1	1	1	1	1	1	0	
																						* TOTALS
Pars Distalis, Hyperplasia	2	4					2							1								4 2.3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
GENERAL BODY SYSTEM																						
NONE																						
GENITAL SYSTEM																						
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Infiltration Cellular, Lymphocyte							2									2						2 2.0
Inflammation, Suppurative					3			2						1								3 2.0
Inflammation, Chronic Active	2		2			2			1	2	2	2	3		2		2	2	2	2		13 2.0
Acinus, Hyperplasia								2														1 2.0
Duct, Ectasia					4								4									2 4.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Inflammation, Suppurative									1	2	2				1							4 1.5
Inflammation, Chronic Active						1																1 1.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Interstitial Cell, Hyperplasia									1											1		2 1.0

HEMATOPOIETIC SYSTEM

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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.092 Furan 36wk	DAY ON TEST																				* TOTALS
	0 2 5 2	0 2 5 3	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 3	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 3	0 2 5 2		
ANIMAL ID	0 0 2 4 1	0 0 2 6 2	0 0 6 5 2	0 0 9 2 2	0 1 2 8 1	0 1 4 0 2	0 1 5 0 2	0 1 6 0 1	0 2 3 7 2	0 2 6 5 1	0 2 9 7 2	0 2 9 9 2	0 3 1 1 2	0 3 3 9 2	0 3 9 0 2	0 4 0 3 1	0 4 2 6 1	0 4 5 6 1	0 4 6 9 1	0 4 7 9 1	
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Lymph Node, Mesenteric Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	+	+	+	20 1 2.0	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3	4	3	+	20 5 3.0	
INTEGUMENTARY SYSTEM																					
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
MUSCULOSKELETAL SYSTEM																					
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
NERVOUS SYSTEM																					
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	

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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

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

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Infiltration Cellular, Histiocyte																						1	1.0
Metaplasia, Osseous																						1	1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Inflammation, Chronic Active																						1	2.0
Goblet Cell, Hyperplasia																						1	2.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Infiltration Cellular, Lymphocyte																						2	1.0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Hydronephrosis																						5	1.6
Nephropathy																						18	1.4
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		

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 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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.2 Furan 36 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		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
	2	3	2	2	2	3	2	2	2	2	2	3	2	3	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	0	0	1	1	1	2	2	2	2	2	3	3	3	3	3	4	4	0	
	3	3	5	5	9	0	9	9	0	0	5	5	7	5	5	6	6	7	1	3	0	
	2	3	1	4	9	1	3	6	6	8	8	9	2	6	7	7	8	0	8	1	0	
	2	1	2	1	2	1	2	1	2	2	2	2	2	2	2	2	2	2	2	1	0	
																						* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Angiectasis		3																			1 3.0
Congestion																2					1 2.0
Granuloma	1	1	1	1	1		1	1	1			2		1		2	1	1		1	14 1.1
Hepatodiaphragmatic Nodule			X																		1
Inflammation, Chronic Active							4														1 4.0
Mixed Cell Focus			X																		1
Tension Lipidosis	2		4																		2 3.0
Vacuolization Cytoplasmic		2	2	1					1			2			2						6 1.7
Bile Duct, Subcapsular, Hyperplasia	1																				1 1.0
Hepatocyte, Hypertrophy												2									1 2.0
Hepatocyte, Necrosis						4															1 4.0
Subcapsular, Fibrosis	2												1						1		3 1.3
Subcapsular, Inflammation, Chronic													1						1		2 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 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
 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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

DAY ON TEST	FISCHER 344 RATS-NCTR RATS MALE																				ANIMAL ID	* TOTALS																			
	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	0	2																			
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	5																			
2	3	2	2	2	2	3	2	2	2	2	2	3	2	3	2	2	2	2	2	2	0	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	0	1	1	1	2	2	2	2	2	3	3	3	3	3	3	4	0	4																			
3	3	5	5	9	0	9	9	0	0	5	5	7	5	5	6	6	7	1	3	3	3																				
2	3	1	4	9	1	3	6	6	8	8	8	2	6	7	7	8	0	8	1	1	1																				
2	1	2	1	2	1	2	1	2	1	2	2	2	2	2	2	2	2	2	2	1	1																				
Subcapsular, Pigmentation																					1	1	2 1.0																		
Pancreas																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Infiltration Cellular, Lymphocyte																																								2	1 2.0
Acinus, Degeneration																																								2	2 2.0
Salivary Glands																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Stomach, Forestomach																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Stomach, Glandular																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
CARDIOVASCULAR SYSTEM																																									
Blood Vessel																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Heart																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Cardiomyopathy																							1	1	1	2	1		1	1	1		3	1	1	1	1		1	1	15 1.2
ENDOCRINE SYSTEM																																									
Adrenal Cortex																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Accessory Adrenal Cortical Nodule																																								X	1
Adrenal Medulla																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Islets, Pancreatic																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Parathyroid Gland																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Pituitary Gland																					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	

* .. 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
 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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

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

Pars Distalis, Angiectasis	2																				1	2.0
Pars Distalis, Cyst	X																				1	
Pars Distalis, Hyperplasia	4 2 1																				3	2.3
Thyroid Gland	+ + + + + + + + + + + + + + + + + + + +																				20	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+ + + + + + + + + + + + + + + + + + + +																				20	
Preputial Gland	+ + + + + + + + + + + + + + + + + + + +																				20	
Abscess																						1 4.0
Inflammation, Suppurative																					4	2 3.5
Inflammation, Chronic Active	1 2 2 2 2 2 2 3 2 2 3 2 2																				12	2.1
Duct, Ectasia	3																				1	3.0
Prostate	+ + + + + + + + + + + + + + + + + + + +																				20	
Inflammation, Suppurative																						3 1.3
Inflammation, Chronic Active	2 1																				2	1.5
Seminal Vesicle	+ + + + + + + + + + + + + + + + + + + +																				20	
Testes	+ + + + + + + + + + + + + + + + + + + +																				20	

HEMATOPOIETIC SYSTEM

* .. 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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 BLANK .. Not examined microscopically
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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

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DAY ON TEST	FISCHER 344 RATS-NCTR RATS MALE																				ANIMAL ID	* TOTALS
	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	0	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
2	3	2	2	2	2	3	2	2	2	2	2	3	2	3	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	0	0	0	0	1	1	1	2	2	2	2	2	3	3	3	3	3	3	4	0	
3	3	5	5	9	0	9	9	0	0	5	5	7	5	5	6	6	7	1	3	3		
2	3	1	4	9	1	3	6	6	8	8	8	9	2	6	7	7	8	0	8	1		
2	1	2	1	2	1	2	1	2	1	2	2	2	1	2	2	2	2	2	1	1		
																					* TOTALS	
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Lymph Node, Mandibular Infiltration Cellular, Plasma Cell	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	1 3.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Spleen Accessory Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	20	1
Thymus Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	6 2.5
INTEGUMENTARY SYSTEM																						
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
MUSCULOSKELETAL SYSTEM																						
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
NERVOUS SYSTEM																						
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	

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

RESPIRATORY SYSTEM

Lung Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	1	2.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Harderian Gland Infiltration Cellular, Lymphocyte	+	+	+	+	+	+	+	+	+	+	+	+	2	+	+	+	+	+	+	20	1	2.0

URINARY SYSTEM

Kidney Hydronephrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	2	1.5
Nephropathy	2	1	1	2	1	2	1	1	1	2	1	1	1	1	1	1	1	1	1	20	1.2	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		

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 Furan
 CAS Number: 110-00-9

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Cholangiofibrosis							1	1		1	1				1	1					6 1.0	
Granuloma	1	2	1	1	2	1	1	1	1	2	1	1	1		1	1	1		2		17 1.2	
Hepatodiaphragmatic Nodule																	X				1	
Tension Lipidosis								2													1 2.0	
Vacuolization Cytoplasmic	1	1	1	1		2	1	1			1	2		1		1		2		2	13 1.3	
Bile Duct, Subcapsular, Hyperplasia					1	1	1				1		2		1	1	1	1	1		12 1.1	
Hepatocyte, Necrosis		1					1				1	1					1				5 1.0	
Subcapsular, Fibrosis			1	1	1	1	1			1	1		1	2		1	1	1	1	1	14 1.1	
Subcapsular, Inflammation, Chronic				1	1	1	1			1	1	1	1	2		1	1	1	1	1	14 1.1	
Subcapsular, Pigmentation			1	1	1	1	1			1	1		1	2		1	1	1	1	1	14 1.1	
Mesentery																					1	
Fat, Necrosis																					3	

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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 0.44 Furan 36 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			
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0		
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0		
	2	3	2	2	2	2	2	2	2	2	2	3	2	3	2	2	2	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	1	1	1	1	1	2	2	3	3	3	3	3	3	3	0		
	2	2	4	5	8	8	1	7	7	8	9	2	6	2	2	5	5	5	9	9	0		
	8	9	7	0	3	4	2	0	3	9	0	6	1	5	6	2	3	4	5	7	0		
	2	2	1	2	1	1	2	2	1	1	1	2	2	1	1	2	2	2	2	2	0		
																						* TOTALS	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Infiltration Cellular, Lymphocyte												1										1	1.0
Acinus, Degeneration									1							1		1				3	1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
CARDIOVASCULAR SYSTEM																							
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Cardiomyopathy	1	1	2	1	1	2	1		1	2	1	1	1	2		1	2	1		2		17	1.4
ENDOCRINE SYSTEM																							
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Pars Distalis, Cyst	X																					1	
Pars Distalis, Hyperplasia	2											1			2							3	1.7

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FISCHER 344 RATS-NCTR RATS MALE 0.44 Furan 36 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			
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0		
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0		
	2	3	2	2	2	2	2	2	2	2	2	3	2	3	2	2	2	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	1	1	1	1	1	2	2	3	3	3	3	3	3	3	0		
	2	2	4	5	8	8	1	7	7	8	9	2	6	2	2	5	5	5	9	9	0		
	8	9	7	0	3	4	2	0	3	9	0	6	1	5	6	2	3	4	5	7	0		
	2	2	1	2	1	1	2	2	1	1	1	2	2	1	1	2	2	2	2	2	0		
																						* TOTALS	
Rathke's Cleft, Cyst																						X	1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Ultimobranchial Cyst																						X	1
GENERAL BODY SYSTEM																							
NONE																							
GENITAL SYSTEM																							
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Hypospermia																						4	1 4.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Inflammation, Suppurative																						2	1 2.0
Inflammation, Chronic Active																						2 2 2 1 3	16 1.9
Duct, Ectasia																						2	1 2.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Inflammation, Suppurative																						1 1 2	6 1.5
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Seminiferous Tubule, Degeneration																						4	1 4.0
HEMATOPOIETIC SYSTEM																							
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		

* .. 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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

DAY ON TEST	FISCHER 344 RATS-NCTR RATS MALE																				ANIMAL ID	* TOTALS
	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	0	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
2	3	2	2	2	2	2	2	2	2	2	2	3	2	3	2	2	2	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	0	0	1	1	1	1	1	2	2	3	3	3	3	3	3	3	0	
2	2	4	5	8	8	1	7	7	8	9	2	6	2	2	5	5	5	9	9	2		
8	9	7	0	3	4	2	0	3	9	0	6	1	5	6	2	3	4	5	7	2		
2	2	1	2	1	1	2	2	1	1	1	2	2	1	1	1	2	2	2	2	2		
																						* TOTALS
Lymph Node																						1
Pancreatic, Hyperplasia, Lymphoid	+																				3	1 3.0
Lymph Node, Mandibular	+																					20
Hyperplasia, Lymphoid																					2	1 2.0
Infiltration Cellular, Plasma Cell																						3
Lymph Node, Mesenteric	+																					20
Hyperplasia, Lymphoid																					2	1 2.0
Spleen	+																					20
Pigmentation																						2
Thymus	+																					20
Atrophy																					2	8 2.8
INTEGUMENTARY SYSTEM																						
Mammary Gland	+																					20
Skin	+																					20
MUSCULOSKELETAL SYSTEM																						
Bone, Femur	+																					20
NERVOUS SYSTEM																						
Brain, Brain Stem	+																					20

* .. 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
 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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.44 Furan 36 wk	DAY ON TEST																				* TOTALS
	0 2 5 2	0 2 5 3	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 3	
ANIMAL ID	0 0 2 8 2	0 0 2 9 2	0 0 4 7 1	0 0 5 0 2	0 0 8 3 1	0 0 8 4 1	0 1 1 2 2	0 1 7 0 2	0 1 7 3 2	0 1 8 9 1	0 1 8 0 1	0 2 2 6 1	0 2 2 2 5	0 3 3 2 6	0 3 3 5 2	0 3 3 5 3	0 3 3 5 4	0 3 3 5 2	0 3 3 5 2	0 3 3 9 2	0 3 3 7 2
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
RESPIRATORY SYSTEM																					
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Infiltration Cellular, Histiocyte																				1	1 1.0
Metaplasia, Osseous										1											1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
SPECIAL SENSES SYSTEM																					
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Cataract			2																		1 2.0
Retina, Degeneration			2																		1 2.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
URINARY SYSTEM																					
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Nephropathy	1	1	2	1		1	2		1	1	1	2	1	1	1	2	1	2	1	2	18 1.3
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

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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
 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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.92 Furan 36 wk	DAY ON TEST																				ANIMAL ID	
	0 2 5 3	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 3	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 3	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2		
	0 0 1 3 1	0 0 1 5 2	0 0 6 7 2	0 0 6 8 2	0 0 6 9 2	0 0 8 1 2	0 0 8 5 2	0 1 8 6 2	0 1 2 1 2	0 2 2 3 2	0 2 4 1 1	0 2 4 1 1	0 2 5 2 1	0 3 4 8 2	0 3 4 9 1	0 3 9 2 1	0 3 9 3 1	0 4 9 2 1	0 4 0 2 3	0 4 0 3 1	0 4 2 1 2	
	* TOTALS																					

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20		
Cholangiofibrosis	1	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1		17	1.1
Granuloma	1	2	1	1		2	1	2	1	2	1	1	1	1	1	1	2	2	2	1			19	1.4
Mixed Cell Focus																			X				1	
Vacuolization Cytoplasmic		1	1		1	2	1	2	2	1		1	1	1	1	1	2	1					16	1.3
Bile Duct, Biliary Tract, Hyperplasia		1				1	2		1					2		1							6	1.3
Bile Duct, Subcapsular, Hyperplasia	1	2	1	1	1	2	1	2	1	1	1	2	1		1	1	1	1	1	1	1		19	1.2
Hepatocyte, Hypertrophy								2					1										2	1.5
Hepatocyte, Necrosis		1	1	1		2	1	2		2		3			1								9	1.6
Oval Cell, Hyperplasia		1																					1	1.0
Periportal, Cytoplasmic Alteration		1	1			1	2					1				1					1		7	1.1
Subcapsular, Fibrosis	1	2	1	1	1	2	2	2	1	1	1	2	1	2	1	1	1	1	1	1	1		20	1.3
Subcapsular, Inflammation, Chronic	1	2	1	1	1	2	2	2	1	1	1	2	1	2	1	1	1	1	1	1	1		20	1.3

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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

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		
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
3	2	2	2	2	2	3	2	2	2	2	2	3	2	3	2	2	2	2	2	2	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	1	1	2	2	2	2	2	3	3	3	3	4	4	4	1	
1	1	6	6	6	8	8	8	2	2	4	4	5	4	4	9	9	0	0	0	2		
3	5	7	8	9	1	5	6	1	3	1	2	1	8	9	2	3	2	3	1	2		
1	2	2	2	2	1	2	2	2	1	1	1	2	1	1	1	1	1	1	2		* TOTALS	
Subcapsular, Pigmentation	1	2	1	1	1	2	2	2	1	1	1	2	1	2	1	1	1	1	1		20 1.3	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Acinus, Degeneration		2	1													1					3 1.3	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Epithelium, Degeneration								2													1 2.0	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
CARDIOVASCULAR SYSTEM																						
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Cardiomyopathy			1	2	1	1	1		1	1	1	1		1	2	1	1	1	1		16 1.1	
ENDOCRINE SYSTEM																						
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		19	
Infiltration Cellular, Lymphocyte		1																			1 1.0	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	

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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

		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAY ON TEST		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
FISCHER 344 RATS-NCTR RATS MALE		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
0.92 Furan 36 wk		3	2	2	2	2	3	2	2	2	2	2	2	3	2	3	2	2	2	2	2	2	2
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	1	1	2	2	2	2	2	3	3	3	3	4	4	4	4	4
		1	1	6	6	6	8	8	8	2	2	4	4	5	4	4	9	9	0	0	0	2	2
		3	5	7	8	9	1	5	6	1	3	1	2	1	8	9	2	3	2	3	1	1	1
		1	2	2	2	2	1	2	2	2	1	1	2	1	2	1	1	2	1	2	1	2	2
* TOTALS																							
Pars Distalis, Cyst		X					X																2
Pars Distalis, Hyperplasia																1	3						2 2.0
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Infiltration Cellular, Lymphocyte													2										1 2.0
Ultimobranchial Cyst									X														1
GENERAL BODY SYSTEM																							
NONE																							
GENITAL SYSTEM																							
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Infiltration Cellular, Lymphocyte																	2						1 2.0
Inflammation, Suppurative		2	2										2								3		4 2.3
Inflammation, Chronic Active					2	2	3				2	2	1		1		3	2	1	2			12 1.9
Acinus, Hyperplasia					3																		1 3.0
Duct, Ectasia						4							3										2 3.5
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Infiltration Cellular, Lymphocyte																						1	1 1.0
Inflammation, Suppurative			1											1		2							3 1.3
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20

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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

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

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Infiltration Cellular, Plasma Cell												3									1 3.0
Sinus, Dilatation															2						1 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Hyperplasia, Lymphoid	2																				1 2.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Thymus	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	19	
Atrophy		2	2									3				2					4 2.3
Hemorrhage														2							1 2.0

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	

MUSCULOSKELETAL SYSTEM

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
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NERVOUS SYSTEM

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20	
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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0.92 Furan 36 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				
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0			
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0			
	3	2	2	2	2	3	2	2	2	2	2	3	2	3	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	0	0	0	1	1	2	2	2	2	2	3	3	3	3	4	4	4	0			
	1	1	6	6	6	8	8	8	2	2	4	4	5	4	4	9	9	0	0	2	0			
	3	5	7	8	9	1	5	6	1	3	1	2	1	8	9	2	3	2	3	1	0			
	1	2	2	2	2	1	2	2	2	1	1	1	1	2	1	1	1	1	2	0				
																						* TOTALS		
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				20
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				20
RESPIRATORY SYSTEM																								
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				20
Infiltration Cellular, Histiocyte																								2 1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				20
Inflammation, Suppurative	1																							1 1.0
Epithelium, Hyperplasia									2															1 2.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				20
SPECIAL SENSES SYSTEM																								
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				20
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				20
Infiltration Cellular, Lymphocyte	1			1																				2 1.0
URINARY SYSTEM																								
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				20
Hydronephrosis	1																							1 1.0
Nephropathy	1	2	1	1	1	2		1	1	1	1	1	2	1		2	1	1	2				18 1.3	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				20

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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Cholangiofibrosis	1	1	2	1		1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	19 1.2
Granuloma	1	1	2	2	1	2	2	1	1	1	2	2	1	2	2	2	1	1	2	2		20 1.6
Mixed Cell Focus	X						X	X						X				X				5
Pigmentation										4												1 4.0
Tension Lipidosis														2								1 2.0
Vacuolization Cytoplasmic	2	2	2	1		1	2	1	2	2	3	1	2	2	2	2			1	2		17 1.8
Bile Duct, Biliary Tract, Hyperplasia	1	2	2	2	1	2	3	1		2	4	1	2	3	2	2	1	1	1	1	2	19 1.8
Bile Duct, Subcapsular, Hyperplasia	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	2	20 1.8
Hepatocyte, Hypertrophy	2			1	2	1	2			2				1	3		2	1	2	2		12 1.8
Hepatocyte, Necrosis	1	1	1	2			2				1			2		2	1				1	10 1.4
Oval Cell, Hyperplasia	1	2	2	2	1	2	3		2	2	2		3	3	3	3			1	3		16 2.2
Periportal, Cytoplasmic Alteration	2	2	2	2	2	2	2	2	1	2	2	2	2	3	2	2		2	2	2		19 2.0
Subcapsular, Fibrosis	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	2	20 1.8

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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: 08:44:34
 First Dose M/F: 09/07/09 / NA
 Lab: NCTR

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		
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
3	3	2	2	2	2	2	2	2	2	2	2	2	3	3	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	0	0	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	0	
	1	4	4	4	9	0	5	5	6	1	1	3	3	3	6	4	4	7	7	8	1	
	7	0	2	3	1	5	8	9	1	3	4	3	4	5	7	0	2	7	8	7	2	
	2	1	2	1	1	1	1	1	2	1	1	2	1	2	1	1	1	2	2	2		* TOTALS
Subcapsular, Inflammation, Chronic	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2		20 1.8
Subcapsular, Pigmentation	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2		20 1.8
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Acinus, Degeneration		2												4	1							3 2.3
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
CARDIOVASCULAR SYSTEM																						
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Cardiomyopathy	1	2	1	1		1	1	2	1	1				1	1	1		1	3			14 1.3
ENDOCRINE SYSTEM																						
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Hypertrophy						1																1 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20	

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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 2 Furan 36 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		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
	3	2	2	2	2	2	2	2	2	2	2	2	3	3	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	0	0	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	0	
	1	4	4	4	9	0	5	5	6	1	1	3	3	3	6	4	4	7	7	1		
	7	0	2	3	1	5	8	9	1	3	4	3	4	5	7	0	2	7	8	1		
	2	1	2	1	1	1	1	1	2	1	1	2	1	2	1	1	1	2	2	1		
																						* TOTALS
Pars Distalis, Cyst	X			X							X											3
Pars Distalis, Hyperplasia		2																				1 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
GENERAL BODY SYSTEM																						
NONE																						
GENITAL SYSTEM																						
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Hypospermia								4		4												2 4.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Infiltration Cellular, Lymphocyte																1						1 1.0
Inflammation, Suppurative											3											1 3.0
Inflammation, Chronic Active	2	1		3	1	2	2	1		2			1	2	2		2	2	2			14 1.8
Duct, Ectasia																			2			1 2.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Inflammation, Suppurative			1						1							1	2		1			5 1.2
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			20
Interstitial Cell, Hyperplasia																			1			1 1.0
Seminiferous Tubule, Degeneration								4		4							2					3 3.3

HEMATOPOIETIC SYSTEM

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	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	0	
	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	
	3	2	2	2	2	2	2	2	2	2	2	2	3	3	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	0	0	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	0	
	1	4	4	4	9	0	5	5	6	1	1	3	3	3	6	4	4	7	7	8	0	
	7	0	2	3	1	5	8	9	1	3	4	3	4	5	7	0	2	7	8	7	0	
	2	1	2	1	1	1	1	1	2	1	1	2	1	2	1	1	1	2	2	2	0	
																						* TOTALS
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Lymph Node																				+	1	
Pancreatic, Hyperplasia, Lymphoid																				4	1 4.0	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Hyperplasia, Lymphoid																				2	2 2.0	
Infiltration Cellular, Plasma Cell																				2	1 2.0	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Atrophy																				2 3	5 2.6	
INTEGUMENTARY SYSTEM																						
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
MUSCULOSKELETAL SYSTEM																						
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
NERVOUS SYSTEM																						
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20

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FISCHER 344 RATS-NCTR RATS MALE 2 Furan 36 wk	DAY ON TEST																				ANIMAL ID		
	0 2 5 3	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 2	0 2 5 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 7 2	
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		* TOTALS
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
RESPIRATORY SYSTEM																							
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Infiltration Cellular, Histiocyte					1			1				1		2									4 1.3
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
SPECIAL SENSES SYSTEM																							
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Infiltration Cellular, Lymphocyte		1												1		2							3 1.3
URINARY SYSTEM																							
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20
Hydronephrosis		2										2											2 2.0
Nephropathy	1	1	2	2	1	1	1	2	1	1	1	1	1	1	1	2	1	1	2	1			20 1.3
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		20

*** END OF REPORT ***

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