Experiment Number: 10119 - 01 P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/03/2014

**AVERAGE SEVERITY GRADES[b]** 

Test Type: CHRONIC Furan Time Report Requested: 08:43:51 Route: GAVAGE **CAS Number:** 110-00-9 First Dose M/F: 09/07/09 / NA

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

60 Week

C10119 **NTP Study Number:** 

06/02/2014 Lock Date:

Cage Range: ALL

**Date Range: ALL** 

**Reasons For Removal: ALL** 

**ALL Removal Date Range:** 

**Treatment Groups:** Include 009 0 Vehicle 60 wk

Include 012 0.092 Furan 60wk

Include 015 0.92 Furan 60 wk

Male

**TDMSE Version:** 3.0.2.0\_001

**PWG Approval Date: NONE** 

**Study Gender:** 

Include 010 0.02 Furan 60 wk

Include 013 0.2 Furan 60 wk

Include 016 2 Furan 60 wk

Include 011 0.044 Furan 60wk

Include 014 0.44 Furan 60 wk

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:43:51 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 60 wk	0.02 Furan 60 wk	0.044 Furan 60wk	0.092 Furan 60wk	0.2 Furan 60 wk	0.44 Furan 60 w
Disposition Summary						
Animals Initially In Study	20	10	10	10	10	10
Scheduled Sacrifice	17	9	10	9	9	10
Early Deaths						
Moribund Sacrifice	2	1		1	1	
Natural Death	1					
Survivors						
Animals Examined Microscopically	20	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(20)	(10)	(10)	(10)	(10)	(10)
Hemorrhage					1 [3.0]	
Inflammation, Suppurative					1 [2.0]	
Ulcer					1 [4.0]	
Periesophageal Tissue, Inflammation, Suppurative						
Intestine Large, Cecum	(19)	(10)	(10)	(10)	(10)	(10)
Intestine Large, Colon	(19)	(10)	(10)	(10)	(10)	(10)
Intestine Large, Rectum	(19)	(10)	(10)	(10)	(10)	(10)
Intestine Small, Duodenum	(19)	(10)	(10)	(10)	(10)	(10)
Intestine Small, Ileum	(18)	(10)	(10)	(10)	(10)	(10)
Intestine Small, Jejunum	(19)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active				1 [2.0]		
Mucosa, Hyperplasia				1 [4.0]		
Liver	(20)	(10)	(10)	(10)	(10)	(10)
Angiectasis	2 [2.0]	1 [2.0]		2 [2.5]		
Basophilic Focus	1					
Cholangiofibrosis						10 [1.1]
Clear Cell Focus					1	
Eosinophilic Focus						
Granuloma	12 [1.3]	9 [1.3]	9 [1.4]	6 [1.5]	8 [1.4]	8 [1.6]
Hepatodiaphragmatic Nodule	1				1	
Mixed Cell Focus	1		1		1	1
Tension Lipidosis	1 [3.0]		2 [3.0]	1 [2.0]	2 [2.5]	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

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

Time Report Requested: 08:43:51 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 60 wk	0.02 Furan 60 wk	0.044 Furan 60wk	0.092 Furan 60wk	0.2 Furan 60 wk	0.44 Furan 60 wk
Vacuolization Cytoplasmic	11 [1.5]	8 [1.5]	10 [1.7]	6 [1.7]	9 [1.3]	5 [1.4]
Bile Duct, Biliary Tract, Hyperplasia	7 [1.0]	3 [1.0]	1 [2.0]	2 [1.0]	1 [1.0]	2 [1.0]
Bile Duct, Subcapsular, Hyperplasia					1 [1.0]	9 [1.1]
Capsule, Fibrosis						
Hepatocyte, Hypertrophy						5 [2.2]
Hepatocyte, Necrosis		1 [1.0]		1 [1.0]	1 [1.0]	1 [2.0]
Oval Cell, Hyperplasia						
Periportal, Cytoplasmic Alteration				1 [2.0]		1 [1.0]
Subcapsular, Fibrosis					4 [1.0]	9 [1.1]
Subcapsular, Inflammation, Chronic					8 [1.0]	9 [1.1]
Subcapsular, Pigmentation					8 [1.0]	9 [1.1]
Mesentery	(4)	(1)	(1)	(2)	(0)	(0)
Inflammation, Chronic	1 [4.0]					
Thrombosis	1					
Fat, Necrosis	3 [4.0]	1 [4.0]	1 [4.0]	2 [3.5]		
Pancreas	(20)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Lymphocyte	4 [1.0]				1 [1.0]	1 [1.0]
Acinar Cell, Hyperplasia		1 [4.0]				
Acinus, Degeneration	6 [2.0]	2 [2.0]	1 [1.0]	3 [1.0]	3 [2.0]	3 [1.7]
Salivary Glands	(20)	(10)	(10)	(10)	(10)	(10)
Stomach, Forestomach	(20)	(10)	(10)	(10)	(10)	(10)
Stomach, Glandular	(20)	(10)	(10)	(10)	(10)	(10)
CARDIOVASCULAR SYSTEM						-
Blood Vessel	(20)	(10)	(10)	(10)	(10)	(10)
Adventitia, Hemorrhage	()	(1-7)	()	(1-5)	(10)	( /
Adventitia, Necrosis						
Heart	(20)	(10)	(10)	(10)	(10)	(10)
Cardiomyopathy	20 [1.8]	8 [1.6]	9 [1.3]	10 [1.8]	9 [1.6]	10 [1.5]
Adventitia, Inflammation, Suppurative	[]	5 []	0 [0]	[]	1 [3.0]	[]
Adventitia, Necrosis					1 [4.0]	
Endocardium, Hyperplasia			1 [3.0]		. []	
Pericardium, Foreign Body			. []			
Pericardium, Inflammation, Suppurative						

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:43:51 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 60 wk	0.02 Furan 60 wk	0.044 Furan 60wk	0.092 Furan 60wk	0.2 Furan 60 wk	0.44 Furan 60 w
Pericardium, Necrosis						
ENDOCRINE SYSTEM						
Adrenal Cortex	(20)	(10)	(10)	(10)	(10)	(10)
Hypertrophy	1 [2.0]					
Vacuolization Cytoplasmic		1 [2.0]			1 [2.0]	1 [2.0]
Adrenal Medulla	(20)	(10)	(10)	(10)	(10)	(10)
Islets, Pancreatic	(20)	(10)	(10)	(10)	(10)	(10)
Parathyroid Gland	(20)	(10)	(10)	(10)	(10)	(10)
Pituitary Gland	(20)	(10)	(10)	(10)	(10)	(10)
Pars Distalis, Cyst	2	1	1	2	1	3
Pars Distalis, Hyperplasia	9 [2.6]	7 [1.3]	4 [1.5]	3 [2.3]	5 [2.0]	1 [1.0]
Thyroid Gland	(20)	(10)	(10)	(10)	(10)	(10)
Ultimobranchial Cyst						
C-cell, Hyperplasia	6 [1.5]	5 [1.2]	9 [1.1]	6 [1.3]	4 [1.3]	4 [1.5]
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(20)	(10)	(10)	(10)	(10)	(10)
Exfoliated Germ Cell	3 [2.0]	1 [2.0]				1 [2.0]
Hypospermia	2 [4.0]	1 [3.0]			1 [4.0]	
Preputial Gland	(20)	(10)	(10)	(10)	(10)	(10)
Fibrosis						1 [2.0]
Infiltration Cellular, Lymphocyte	2 [1.5]					
Inflammation, Suppurative	5 [3.6]	4 [3.0]	3 [2.3]	3 [3.0]		3 [4.0]
Inflammation, Chronic Active	13 [2.2]	6 [2.0]	7 [2.0]	7 [2.0]	9 [1.9]	7 [2.1]
Acinus, Hyperplasia		1 [2.0]			1 [4.0]	1 [3.0]
Duct, Ectasia	7 [3.4]	2 [3.0]	1 [2.0]	4 [3.0]	4 [2.8]	5 [3.8]
Epithelium, Hyperplasia				1 [4.0]		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

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

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:43:51
First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 60 wk	0.02 Furan 60 wk	0.044 Furan 60wk	0.092 Furan 60wk	0.2 Furan 60 wk	0.44 Furan 60 wk
Prostate	(20)	(10)	(10)	(10)	(10)	(10)
Degeneration, Cystic	,		, ,	, ,	` ,	1 [1.0]
Infiltration Cellular, Lymphocyte		1 [1.0]				
Inflammation, Suppurative	13 [1.4]	7 [2.0]	3 [1.7]	9 [1.4]	4 [1.3]	8 [1.8]
Inflammation, Chronic Active			2 [1.5]			
Epithelium, Hyperplasia	3 [2.0]					
Seminal Vesicle	(20)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative						
Lumen, Dilatation	1 [3.0]					
Testes	(20)	(10)	(10)	(10)	(10)	(10)
Interstitial Cell, Hyperplasia	14 [1.6]	8 [1.9]	10 [1.6]	8 [1.9]	9 [1.8]	7 [1.9]
Seminiferous Tubule, Degeneration	4 [3.0]	2 [3.0]			3 [3.0]	1 [2.0]
HEMATOPOIETIC SYSTEM						
Bone Marrow	(20)	(10)	(10)	(10)	(10)	(10)
Myeloid Cell, Hyperplasia		1 [2.0]		1 [2.0]		
Lymph Node	(1)	(0)	(0)	(0)	(0)	(0)
Mediastinal, Hemorrhage	1 [3.0]					
Lymph Node, Mandibular	(20)	(10)	(10)	(10)	(10)	(10)
Hemorrhage	1 [2.0]					
Hyperplasia, Lymphoid	1 [2.0]	1 [2.0]			1 [2.0]	1 [2.0]
Infiltration Cellular, Plasma Cell	2 [3.0]	1 [4.0]				1 [3.0]
Sinus, Dilatation	2 [2.0]	1 [2.0]	2 [2.0]			1 [2.0]
Lymph Node, Mesenteric	(20)	(10)	(10)	(10)	(10)	(10)
Hyperplasia, Lymphoid		1 [2.0]		2 [2.5]		1 [2.0]
Sinus, Dilatation			1 [3.0]			
Spleen	(20)	(10)	(10)	(10)	(10)	(10)
Angiectasis	1 [4.0]					
Fibrosis	1 [4.0]					
Hematopoietic Cell Proliferation		1 [1.0]				
Hemorrhage	1 [4.0]					
Hyperplasia, Lymphoid					1 [2.0]	
Necrosis	1 [4.0]					
Pigmentation	2 [3.5]		1 [4.0]		1 [3.0]	1 [2.0]

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan
CAS Number: 110-00-9

Time Report Requested: 08:43:51 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 60 wk	0.02 Furan 60 wk	0.044 Furan 60wk	0.092 Furan 60wk	0.2 Furan 60 wk	0.44 Furan 60 wl
Capsule, Fibrosis						
Thymus	(20)	(10)	(10)	(10)	(10)	(10)
Atrophy	19 [3.9]	8 [3.5]	10 [4.0]	10 [3.8]	8 [4.0]	10 [3.8]
Necrosis					1 [4.0]	
Adventitia, Inflammation, Suppurative Adventitia, Necrosis						
NTEGUMENTARY SYSTEM						
Mammary Gland	(19)	(10)	(9)	(10)	(9)	(10)
Galactocele	1		1	1		1
Inflammation, Chronic Active				1 [2.0]		
Alveolus, Dilatation	1 [3.0]	3 [2.3]				1 [2.0]
Epithelium, Hyperplasia						1 [2.0]
Skin	(20)	(10)	(10)	(10)	(10)	(10)
Abscess						
Cyst Epithelial Inclusion	1					
Fibrosis					1 [3.0]	
MUSCULOSKELETAL SYSTEM						
Bone	(1)	(0)	(0)	(0)	(0)	(0)
Bone, Femur	(20)	(10)	(10)	(10)	(10)	(10)
Skeletal Muscle	(1)	(0)	(0)	(0)	(1)	(0)
Fibrosis					1 [4.0]	
Hemorrhage	1 [4.0]					
Necrosis	1 [3.0]					
NERVOUS SYSTEM						
Brain, Brain Stem	(20)	(10)	(10)	(10)	(10)	(10)
Compression	1 [4.0]	1 [2.0]	·	•	•	1 [4.0]
Brain, Cerebellum	(20)	(10)	(10)	(10)	(10)	(10)
Brain, Cerebrum	(20)	(10)	(10)	(10)	(10)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

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

Time Report Requested: 08:43:51 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0 Vehicle 60 wk	0.02 Furan 60 wk	0.044 Furan 60wk	0.092 Furan 60wk	0.2 Furan 60 wk	0.44 Furan 60 wk
Brain, NOS	(0)	(0)	(0)	(0)	(0)	(1)
RESPIRATORY SYSTEM						
Lung	(20)	(10)	(10)	(10)	(10)	(10)
Congestion						
Histiocytosis	1 [2.0]			1 [1.0]		
Infiltration Cellular, Histiocyte	3 [1.0]			2 [1.0]		
Inflammation, Chronic Active	1 [3.0]					
Pleura, Foreign Body						
Pleura, Inflammation, Suppurative					1 [4.0]	
Pleura, Necrosis					1 [4.0]	
Nose	(20)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative				1 [1.0]		
Goblet Cell, Hyperplasia	1 [3.0]				1 [2.0]	
Trachea	(20)	(10)	(10)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(19)	(10)	(10)	(10)	(10)	(10)
Cataract	1 [1.0]	, ,	, ,	, ,	, ,	, ,
Harderian Gland	(20)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Lymphocyte	1 [1.0]	, ,	2 [1.5]	1 [2.0]	, ,	, ,
Acinus, Degeneration			1 [2.0]			
JRINARY SYSTEM						
Kidney	(20)	(10)	(10)	(10)	(10)	(10)
Hydronephrosis	3 [2.7]	1 [1.0]	(10)	2 [2.0]	2 [2.5]	()
Nephropathy	20 [2.4]	10 [2.5]	10 [2.5]	10 [2.4]	9 [2.2]	10 [2.5]
Polyarteritis	[1	· [1	1 [2.0]	- [1	- []	- []
Urinary Bladder	(20)	(10)	(10)	(10)	(10)	(10)
Hemorrhage	( - /	\ -/	\ - <i>/</i>	( - /	( - /	( -/
Lumen, Dilatation						

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Test Type: CHRONIC

Route: GAVAGE

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/03/2014

**AVERAGE SEVERITY GRADES[b]** 

Furan

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

Time Report Requested: 08:43:51 First Dose M/F: 09/07/09 / NA

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE 0 Vehicle 60 wk 0.02 Furan 60 wk 0.044 Furan 60wk 0.092 Furan 60wk 0.2 Furan 60 wk 0.44 Furan 60 wk

Test Type: CHRONIC
Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

Tension Lipidosis

Furan CAS Number: 110-00-9

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	2 Furan 60 wk
Disposition Summary		
Animals Initially In Study	10	10
Scheduled Sacrifice	10	8
Early Deaths		_
Moribund Sacrifice		1
Natural Death		1
Survivors		
Animals Examined Microscopically	10	10
ALIMENTARY SYSTEM		
Esophagus	(10)	(10)
Hemorrhage	. ,	, ,
Inflammation, Suppurative		
Ulcer		
Periesophageal Tissue, Inflammation, Suppurative		1 [2.0]
Intestine Large, Cecum	(10)	(9)
Intestine Large, Colon	(10)	(10)
Intestine Large, Rectum	(10)	(9)
Intestine Small, Duodenum	(10)	(9)
Intestine Small, Ileum	(10)	(9)
Intestine Small, Jejunum	(10)	(9)
Inflammation, Chronic Active	\ -/	\-/
Mucosa, Hyperplasia		
Liver	(10)	(10)
Angiectasis	( /	2 [4.0]
Basophilic Focus		- []
Cholangiofibrosis	10 [1.6]	8 [2.1]
Clear Cell Focus	10 [1.0]	1
Eosinophilic Focus	ı	1
Granuloma	8 [1.8]	8 [2.4]
Hepatodiaphragmatic Nodule	J [1.0]	المال المال
Mixed Cell Focus	3	6
Wilked Cell Focus	3	0

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

2 [3.0]

Test Type: CHRONIC
Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:43:51 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 60 wk	2 Furan 60 wk
Vacuolization Cytoplasmic	9 [2.1]	8 [2.8]
Bile Duct, Biliary Tract, Hyperplasia	3 [1.3]	8 [2.5]
Bile Duct, Subcapsular, Hyperplasia	10 [1.5]	7 [1.9]
Capsule, Fibrosis	[]	1 [2.0]
Hepatocyte, Hypertrophy	4 [1.5]	8 [2.1]
Hepatocyte, Necrosis	1 [1.0]	1 [1.0]
Oval Cell, Hyperplasia	3 [1.3]	7 [2.3]
Periportal, Cytoplasmic Alteration	7 [1.6]	8 [2.0]
Subcapsular, Fibrosis	10 [1.5]	7 [1.9]
Subcapsular, Inflammation, Chronic	10 [1.5]	7 [1.9]
Subcapsular, Pigmentation	10 [1.5]	7 [1.9]
Mesentery	(0)	(0)
Inflammation, Chronic	(=)	(-)
Thrombosis		
Fat, Necrosis		
Pancreas	(10)	(10)
Infiltration Cellular, Lymphocyte	( /	( /
Acinar Cell, Hyperplasia		
Acinus, Degeneration	4 [1.3]	2 [2.0]
Salivary Glands	(10)	(10)
Stomach, Forestomach	(10)	(10)
Stomach, Glandular	(10)	(10)
	(,	()
CARDIOVASCULAR SYSTEM		
Blood Vessel	(10)	(10)
Adventitia, Hemorrhage	,	1 [2.0]
Adventitia, Necrosis		1 [2.0]
Heart	(10)	(10)
Cardiomyopathy	9 [1.8]	8 [1.4]
Adventitia, Inflammation, Suppurative	- 1 -1	- 1 1
Adventitia, Necrosis		
Endocardium, Hyperplasia		
Pericardium, Foreign Body		1
Pericardium, Inflammation, Suppurative		1 [2.0]

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

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

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	2 Furan 60 wk
Pericardium, Necrosis		1 [4.0]
ENDOCRINE SYSTEM		,
Adrenal Cortex	(10)	(10)
Hypertrophy		
Vacuolization Cytoplasmic	(40)	(40)
Adrenal Medulla	(10)	(10)
Islets, Pancreatic	(10)	(10)
Parathyroid Gland	(10)	(10)
Pituitary Gland	(10)	(10)
Pars Distalis, Cyst	4	2
Pars Distalis, Hyperplasia	6 [1.7]	4 [1.0]
Thyroid Gland	(10)	(10)
Ultimobranchial Cyst	1	. ,
C-cell, Hyperplasia	6 [1.7]	2 [1.5]

#### **GENERAL BODY SYSTEM**

None

#### **GENITAL SYSTEM**

Epididymis	(10)	(10)
Exfoliated Germ Cell	3 [2.3]	
Hypospermia	3 [3.0]	
Preputial Gland	(10)	(10)
Fibrosis		
Infiltration Cellular, Lymphocyte		
Inflammation, Suppurative	3 [3.3]	1 [4.0]
Inflammation, Chronic Active	7 [2.3]	6 [2.5]
Acinus, Hyperplasia		1 [3.0]
Duct, Ectasia	3 [4.0]	
Epithelium, Hyperplasia		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

Furan CAS Number: 110-00-9

Time Report Requested: 08:43:51
First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 60 wk	2 Furan 60 wk
Prostate	(10)	(10)
Degeneration, Cystic	(10)	(10)
Infiltration Cellular, Lymphocyte	1 [1.0]	
Inflammation, Suppurative	3 [1.7]	4 [1.5]
Inflammation, Chronic Active	0[]	1 [1.0]
Epithelium, Hyperplasia	1 [1.0]	
Seminal Vesicle	(10)	(10)
Inflammation, Suppurative	1 [3.0]	(10)
Lumen, Dilatation	1 [0.0]	
Testes	(10)	(10)
Interstitial Cell, Hyperplasia	8 [1.8]	7 [1.6]
Seminiferous Tubule, Degeneration	4 [3.8]	7 [1.0]
Germinierous Tubule, Degeneration	4 [5.0]	
HEMATOPOIETIC SYSTEM		
Bone Marrow	(10)	(10)
Myeloid Cell, Hyperplasia		1 [2.0]
Lymph Node	(0)	(0)
Mediastinal, Hemorrhage		
Lymph Node, Mandibular	(10)	(10)
Hemorrhage		
Hyperplasia, Lymphoid		1 [2.0]
Infiltration Cellular, Plasma Cell		
Sinus, Dilatation		
Lymph Node, Mesenteric	(10)	(10)
Hyperplasia, Lymphoid	, ,	1 [2.0]
Sinus, Dilatation		
Spleen	(10)	(10)
Angiectasis	( /	( /
Fibrosis		
Hematopoietic Cell Proliferation		1 [2.0]
Hemorrhage		، ر∠.∨ا
Hyperplasia, Lymphoid		
Necrosis		
Pigmentation	1 [2.0]	
riginionation	۱ ز۷۰۰	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: RATS/F 344/NCTR

Experiment Number: 10119 - 01

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

Time Report Requested: 08:43:51 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 60 wk	2 Furan 60 wk
Capsule, Fibrosis		1 [2.0]
Thymus	(10)	(10)
Atrophy	9 [3.7]	7 [3.7]
Necrosis		- •
Adventitia, Inflammation, Suppurative		1 [3.0]
Adventitia, Necrosis		1 [3.0]
INTEGUMENTARY SYSTEM		
Mammary Gland	(10)	(10)
Galactocele	(15)	(1-7)
Inflammation, Chronic Active		
Alveolus, Dilatation	1 [1.0]	
Epithelium, Hyperplasia		
Skin	(10)	(10)
Abscess	1 [4.0]	
Cyst Epithelial Inclusion		1
Fibrosis		
MUSCULOSKELETAL SYSTEM		
Bone	(0)	(0)
Bone, Femur	(10)	(10)
Skeletal Muscle	(0)	(0)
Fibrosis		
Hemorrhage		
Necrosis		
NERVOUS SYSTEM		
Brain, Brain Stem Compression	(10)	(10)
Brain, Cerebellum	(10)	(10)
Brain, Cerebrum	(10)	(10)
•	` ,	` '

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Experiment Number: 10119 - 01

Species/Strain: RATS/F 344/NCTR

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

Time Report Requested: 08:43:51 First Dose M/F: 09/07/09 / NA

FISCHER 344 RATS-NCTR RATS MALE	0.92 Furan 60 wk	2 Furan 60 wk		
Brain, NOS	(0)	(0)		
RESPIRATORY SYSTEM				
Lung Congestion	(10)	(10) 1 [4.0]		
Histiocytosis Infiltration Cellular, Histiocyte Inflammation, Chronic Active	4 [2.3]	2 [1.0]		
Pleura, Foreign Body Pleura, Inflammation, Suppurative		1 1 [4.0]		
Pleura, Necrosis Nose Inflammation, Suppurative	(10)	1 [4.0] (10)		
Goblet Cell, Hyperplasia Trachea	(10)	(10)		
SPECIAL SENSES SYSTEM				
Eye Cataract	(10)	(10)		
Harderian Gland Infiltration Cellular, Lymphocyte Acinus, Degeneration	(10) 1 [2.0]	(10) 3 [1.3]		
URINARY SYSTEM				
Kidney Hydronephrosis	(10)	(10) 3 [1.3]		
Nephropathy Polyarteritis Urinary Bladder Hemorrhage	10 [2.7]	8 [2.6] (10) 1 [3.0]		
Lumen, Dilatation		1 [4.0]		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 10119 - 01

Test Type: CHRONIC

Route: GAVAGE

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/03/2014

AVERAGE SEVERITY GRADES[b]

Furan

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

Time Report Requested: 08:43:51 First Dose M/F: 09/07/09 / NA

Lab: NCTR

**FISCHER 344 RATS-NCTR RATS MALE** 

Species/Strain: RATS/F 344/NCTR

0.92 Furan 60 wk

2 Furan 60 wk

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