

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:02
First Dose M/F: NA / NA
Lab: SRI

C Number:	C56202
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	02/19/1990

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:02
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 1	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Dead	DAY ON TEST: 629 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM MAL TGLs = 2-25	Medulla	Pheochromocytoma Malignant	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung Note: CONGESTION TGLs = 7-4		Congestion	Mild
Spleen		Congestion	Mild
Testes [Adenoma TGLS = 1-9]	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 115
	DOSE: VEHICLE CONTROL	DISP: Dosing Accident	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Liver	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Lung	Congestion	Moderate
	Foreign Body	Moderate

Note: CONGESTION TGLs = 1-4

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 319
	DOSE: VEHICLE CONTROL	DISP: Dosing Accident	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Liver
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Intestine Small - Duodenum	Mammary Gland	Pituitary Gland
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OBSERVATIONS

Lung	Congestion	Mild
	Foreign Body	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Brain		Cyst	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Eosinophilic Focus	
	Biliar Tract	Proliferation	Mild
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Minimal
Prostate		Inflammation	Subacute, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-9		
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Moribund	DAY ON TEST: 645 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-8 [Leukemia Mononuclear TGLS = 4-8]			
Bone Marrow		Leukemia Mononuclear	
Brain		Inflammation	Suppurative, Acute, Multifocal, Mild
Heart	Valve	Leukemia Mononuclear Embolus Bacterial Inflammation Leukemia Mononuclear Thrombosis	Marked Suppurative, Acute, Multifocal, Moderate
Intestine Large	Cecum Cecum	Leukemia Mononuclear Ulcer	Multiple, Moderate
Kidney	Cortex Cortex	Embolus Bacterial Inflammation Leukemia Mononuclear Nephropathy	Mild Suppurative, Acute, Multifocal, Mild Chronic, Minimal
Note: INFLAMMATION TGLs = 5-7.1 [Inflammation TGLS = 5-7.1]			
Liver	Centrilobular	Leukemia Mononuclear Necrosis	Mild
	Biliar Tract	Proliferation	Mild
Lung	Pleura	Fibrosis Granuloma	Focal, Mild Multiple, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 5	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Moribund	DAY ON TEST: 645 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 10-4 [Fibrosis TGLS = 11-4+4-1]		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 3-25]			
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-9]			
Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mediastinal	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Brain		Granular Cell Tumor Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
		Necrosis	Focal, Mild
	Biliar Tract	Proliferation	Mild
Lung		Granuloma	Multiple, Mild
		Leukemia Mononuclear	
Lymph Node	Bronchial	Ectasia	Mild
	Mesenteric	Ectasia	Mild
	Bronchial	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild

Note: ANGIECTASIS TGLs = 7-1
 Note: HYPERPLASIA TGLs = 7-1
 Note: PIGMENT TGLs = 7-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-2-1+25		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-9		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Moderate
Note: [CARDIOMYOPATHY] TGLs = 10-2-1			
Kidney		Nephropathy	Chronic, Mild
Liver		Degeneration	Cystic, Mild
	Biliar Tract	Eosinophilic Focus	
		Proliferation	Mild
Lung		Granuloma	Multiple, Mild
Lymph Node	Mediastinal	Congestion	Mild
	Mandibular	Ectasia	Mild
Note: CONGESTION TGLs = 7-2			
Pancreas		Hyperplasia	Mild
Preputial Gland	Duct	Cyst	
		Inflammation	Suppurative, Acute, Focal, Marked
Note: CYST TGLs = 1-15			
Note: INFLAMMATION TGLs = 1-15			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 6-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mediastinal	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Biliar Tract	Leukemia Mononuclear	
		Proliferation	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
	Mesenteric	Leukemia Mononuclear	
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas		Adenoma	Multiple
		Atrophy	Focal, Mild
		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 7-1]			
[Pigmentation TGLS = 7-1]			
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-9]

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Biliar Tract	Proliferation	Mild
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas		Atrophy	Multifocal, Mild
		Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 5-9]

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Eosinophilic Focus	
	Biliar Tract	Proliferation	Mild
Lung		Hyperplasia	Mild
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 1-26]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pancreas		Hyperplasia	Multifocal, Moderate
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 7-9]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 11 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 730
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney	Cortex	Fibrosis	Focal, Mild
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
	Biliar Tract	Proliferation	Minimal
Lung	Alveolar Epith	Hyperplasia	Moderate
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Multifocal, Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
	[Adenoma TGLS = 6-1]		
	[Angiectasis TGLS = 6-1]		
	[Pigmentation TGLS = 6-1]		
Testes	Interstit Cell	Adenoma	Multiple
	[Adenoma TGLS = 1-9]		
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Mild
Tooth		Dysplasia	Moderate
Note: DYSPLASIA	TGLs = 7-14		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 12 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 730
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Pancreas		Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Suppurative, Acute, Focal, Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate

[Adenoma TGLS = 1-9]

[Atrophy TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 13 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 730
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Intestine Large - Cecum

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Granuloma	Multiple, Mild
Lymph Node	Mesenteric	Ectasia	Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 5-25			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			
Prostate		Inflammation	Subacute, Moderate
Spleen		Fibrosis	Focal, Moderate
Note: FIBROSIS TGLs = 8-2-1			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 6-9			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Islets, Pancreatic Note: ADENOMA TGLs = 2-5		Adenoma	
Kidney		Nephropathy	Chronic, Minimal
Liver		Degeneration	Cystic, Focal, Mild
	Biliar Tract	Eosinophilic Focus	
Note: CYSTIC DEGENERATION ON SLIDE #5.		Proliferation	Mild
Nose		Foreign Body	Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes Note: ADENOMA TGLs = 1-9	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Mild
Pancreas		Hyperplasia	Multifocal, Moderate
Spleen		Fibrosis	Focal, Moderate
Note: FIBROSIS TGLs = 8-2			
Stomach	Forestomach	Hyperplasia	Marked
	Forestomach	Inflammation	Subacute, Moderate
Note: HYPERPLASIA TGLs = 7-6			
Note: INFLAMMATION TGLs = 7-6			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 5-9]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Islets, Pancreatic		Adenoma	Multiple
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Eosinophilic Focus	
	Biliar Tract	Proliferation	Minimal
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Moderate
		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas		Hyperplasia	Multifocal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 7-1]			
[Pigmentation TGLS = 7-1]			
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal
Testes	Interstit Tiss	Adenoma	
		Atrophy	Moderate
Note: ADENOMA TGLs = 6-9			
[Atrophy TGLS = 5-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
[Cyst TGLS = 6-7]			
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Mild
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 8-1			
Prostate		Inflammation	Subacute, Moderate
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial	Lymph Node - Mandibular
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OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Clear Cell Focus	
	Biliar Tract	Proliferation	Mild
Lung		Granuloma	Multiple, Moderate
Note: GRANULOMA	TGLs = 7-4+4-1		
Mammary Gland	Duct	Cyst	
Pancreas		Adenoma	Multiple
		Atrophy	Focal, Minimal
		Hyperplasia	Multifocal, Mild
Note: HYPERPLASIA	TGLs = 2-5+5-1		
Note: ADENOMA	TGLs = 2-5+5-1		
Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-9		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 19	TRT#: 1	SEX: Male	DAY ON TEST: 407
	DOSE: VEHICLE CONTROL	DISP: Dosing Accident	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Liver	Lymph Node - Bronchial	Lymph Node - Mediastinal
Mammary Gland	Nose	Pancreas	Pituitary Gland
Preputial Gland	Prostate	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Urinary Bladder

MISSING

Esophagus	Intestine Small - Ileum	Lymph Node - Mandibular	Lymph Node - Mesenteric
Parathyroid Gland	Salivary Glands	Thyroid Gland	Trachea

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Lung		Congestion	Moderate
		Foreign Body	Moderate
[Foreign Body TGLS = 1-4]			
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 188

DOSE: VEHICLE CONTROL

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Liver
Mammary Gland
Preputial Gland
Spleen
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Lymph Node - Bronchial
Nose
Prostate
Stomach - Forestomach
Urinary Bladder

Bone
Heart
Islets, Pancreatic
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular

Bone Marrow
Intestine Large - Cecum
Kidney
Lymph Node - Mediastinal
Pituitary Gland
Skin
Testes

MISSING

Esophagus

Parathyroid Gland

Thyroid Gland

Trachea

AUTO PRECLUDES DIAG.

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Lymph Node - Mesenteric

OBSERVATIONS

Lung

Foreign Body
Inflammation

Marked
Subacute, Mild

[Foreign Body TGLS = 2-4,3-4,4-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 613

DOSE: VEHICLE CONTROL

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pituitary Gland
Skin
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Lung
Mammary Gland
Preputial Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Nose
Prostate
Stomach - Forestomach
Trachea

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Eosinophilic Focus
Proliferation
Vacuolization Cytoplasmic

Mild
Chronic, Minimal

Minimal
Mild

Biliar Tract
Hepatocyte

Hyperplasia
Adenoma

Multifocal, Mild
Multiple

Note: VACUOLIZ CYTO TGLs = 6-25

Pancreas

Testes

Note: ADENOMA TGLs = 1-9

Interstit Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 716

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Islets, Pancreatic		Carcinoma	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Mild
Lung		Congestion	Mild
[Congestion TGLS = 7-4]			
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
[Adenoma TGLS = 8-1]			
[Pigmentation TGLS = 8-1]			
Prostate		Inflammation	Subacute, Moderate
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
	Biliar Tract	Proliferation	Mild
Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Histiocyte, Minimal
Nose		Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
		Inflammation	Suppurative, Acute, Minimal
Pancreas		Atrophy	Multifocal, Mild
Preputial Gland		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
Note: [HYPERPLASIA] TGLs = 6-15			
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN TGLs = 5-26			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 7-9

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Eye	Retina	Cataract	Moderate
		Degeneration	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Minimal
Mammary Gland	Duct	Cyst	
Pancreas		Adenoma	
		Hyperplasia	Focal, Moderate
Testes	Interstit Cell	Adenoma	Multiple
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 611

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver	Centrilobular	Necrosis	Mild
Lung		Squamous Cell Carcinoma	Metastatic (Preputial Gland)
Note: TGL 8, OSSEOUS METAPLASIA IN NEOPLASM.			
Note: TGL 8, NEOPLASM INVOLVES LUNG AND MEDIASTINUM.			
Note: SQUAM CEL CARC TGLs = 8-27+4+2-1			
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
[Necrosis TGLS = 3-26]			
Pancreas		Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 9-1]			
Preputial Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-25]			
Prostate		Inflammation	Subacute, Moderate
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 611

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland Note: [PHEOCHROM BGN] TGLs = 3-8	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic [Adenoma TGLS = 2-5]		Adenoma	Multiple
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Minimal
Mesentery Note: INFLAMMATION ON SLIDES 5,6,8,9,22 and 23.			
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Pancreas [Adenoma TGLS = 2-5+6-1] [Hyperplasia TGLS = 2-5+6-1]		Adenoma	
		Hyperplasia	Multifocal, Mild
Preputial Gland		Inflammation	Suppurative, Acute, Focal, Mild
Spleen		Congestion	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Leukemia Mononuclear

Adenoma

Multiple

[Adenoma TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
	Biliar Tract	Ectasia	Focal, Mild
	Biliar Tract	Proliferation	Minimal
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
	Fat, Mediastinum	Necrosis	Multifocal, Mild
Nose		Foreign Body	Mild
		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas		Hyperplasia	Focal, Mild
		Inflammation	Chronic, Focal, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial	Preputial Gland
------------------------	-----------------

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY TGLs = 6-7			
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Minimal
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIOMA IS ON SLIDE 9.			
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas		Atrophy	Focal, Minimal
		Hyperplasia	Focal, Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 5-9]			
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 464

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Lung		Granuloma	Multiple, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Skin	Subcut Tiss	Fibrosarcoma	
Note: SKIN TGL 1 IS ON SLIDE V [Fibrosarcoma TGLS = 1]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 2-2			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 30	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Minimal
Lymph Node	Mandibular	Ectasia	Moderate
Mammary Gland		Fibroadenoma	
Pancreas		Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 2-5]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-9]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver		Clear Cell Focus	
	Biliar Tract	Developmental Malformation	
	[Developmental Malformation TGLS = 2-25]	Proliferation	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
	[Adenoma TGLS = 8-1]		
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Interstit Cell	Adenoma	Multiple
	[Adenoma TGLS = 1-9]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 659

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
Note: LEUKEMIA MONUC TGLs = 10-5 Note: NECROSIS TGLs = 10-5 [Necrosis TGLS = 10-5]			
Lung	Mediastinum	Leukemia Mononuclear	
		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 11-1			
Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 1-25]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 32	TRT#: 1	SEX: Male	DAY ON TEST: 659
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Fibrosis Leukemia Mononuclear	Focal, Moderate
Note: FIBROSIS TGLs = 4-26 [Leukemia Mononuclear TGLS = 3-2-1]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-9]			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-8]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Minimal
Lymph Node	Mandibular	Ectasia	Mild
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Pancreas		Atrophy	Multifocal, Moderate
		Inflammation	Subacute, Focal, Mild
Preputial Gland		Foreign Body	Mild
		Granuloma	Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 5-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Developmental Malformation	
	Biliar Tract	Proliferation	Minimal
[Developmental Malformation TGLS = 8-25]			
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas		Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 3-5			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-9			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mesenteric	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mediastinal

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Eosinophilic Focus	
	Biliar Tract	Proliferation	Mild
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Acute, Minimal
Pancreas		Atrophy	Focal, Mild
		Hyperplasia	Multifocal, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-9]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
[Carcinoma TGLS = 2-3,3-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Bone

Bone Marrow

Brain

Epididymis

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Lung

Lymph Node - Bronchial

Lymph Node - Mediastinal

Lymph Node - Mesenteric

Mammary Gland

Nose

Pancreas

Parathyroid Gland

Preputial Gland

Prostate

Salivary Glands

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Benign

Heart

Cardiomyopathy

Mild

Intestine Large

Rectum

Parasite Metazoan

Mild

Islets, Pancreatic

Adenoma

Multiple

Kidney

Nephropathy

Chronic, Marked

Note: NEPHROPATHY TGLs = 8-7

Liver

Basophilic Focus

Degeneration

Cystic, Minimal

Eosinophilic Focus

Biliar Tract

Proliferation

Minimal

Lymph Node

Mandibular

Ectasia

Moderate

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Mild

Skin

Squamous Cell Papilloma

Note: PAPILLOMA SQUA TGLs = 5-25

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 7-9

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 37	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
	Biliar Tract	Proliferation	Minimal
Mammary Gland	Duct	Cyst	
Testes	Interstit Cell	Adenoma	Multiple

Note: ADENOMA TGLs = 1-9

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 549

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Eosinophilic Focus	
	Biliar Tract	Proliferation	Minimal
Mammary Gland	Duct	Cyst	
Nose	Nasopharyn Dct	Cyst	
	Nasopharyn Dct	Foreign Body	Marked
		Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Acute, Marked
	Nasopharyn Dct	Inflammation	Subacute, Moderate
Note: FOREIGN BODY TGLs = 8-11+12 [Cyst TGLS = 8-11+12] [Inflammation TGLS = 8-11+12]			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 53

DOSE: VEHICLE CONTROL

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Kidney
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Lymph Node - Bronchial
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Nose
Preputial Gland
Spleen
Thymus

Bone Marrow
Heart
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

MISSING

Intestine Large - Colon

Intestine Small - Ileum

Intestine Small - Jejunum

OBSERVATIONS

Liver
Note: [DEVELOP MALFOR] TGLs = 1
Note: TGL 1 IS ON SLIDE I.

Developmental Malformation

Lung
[Foreign Body TGLS = 2-4]

Congestion
Foreign Body

Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial	Lymph Node - Mediastinal
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OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Minimal
Nose		Foreign Body	Mild
Pancreas		Hyperplasia	Multifocal, Moderate
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Diffuse, Mild
Bone Marrow		Necrosis	Marked
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-2 [Leukemia Mononuclear TGLS = 12-8] [Leukemia Mononuclear TGLS = 9-26] [Leukemia Mononuclear TGLS = 15-2]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
		Leukemia Mononuclear	
Note: FIBROADENOMA TGLs = 2-25 Note: LEUKEMIA MONUC TGLs = 2-25			
Pancreas		Adenoma	
		Hyperplasia	Multifocal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 41	TRT#: 1	SEX: Male	DAY ON TEST: 680
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Salivary Glands		Leukemia Mononuclear	
Skin		Inflammation	Subacute, Multifocal, Moderate
Note: INFLAMMATION	TGLs = 13-28,14-29		
Spleen		Leukemia Mononuclear	
		Necrosis	Focal, Mild
Note: LEUKEMIA MONUC	TGLs = 10-2-1		
Note: NECROSIS	TGLs = 11-27		
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 17-6		
Note: LEUKEMIA MONUC	TGLs = 18-6		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 3-9		
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Minimal
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
[Necrosis TGLS = 2-25]			
Pancreas		Atrophy	Focal, Minimal
		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 43 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 731
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Kidney		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Proliferation	Moderate
Lung	Mediastinum	Inflammation	Chronic, Multifocal, Mild
Note: INFLAMMATION TGLs = 8-4			
Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 2-5			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA TGLs = 9-1			
[Angiectasis TGLS = 9-1]			
Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-9]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 660

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-8		
Note: LEUKEMIA MONUC	TGLs = 6-8		
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 14-1,15-1		
Note: HEMORRHAGE	TGLs = 14-1,15-1		
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Degeneration	Cystic, Multifocal, Mild
		Eosinophilic Focus	
		Hepatocellular Adenoma	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
Note: PROLIFERATION	TGLs = 7-5+21+22+23+24		
Note: LEUKEMIA MONUC	TGLs = 7-5+21+22+23+24		
Note: NECROSIS	TGLs = 7-5+21+22+23+24		
Lung		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 660

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 12-4.1

Lymph Node	Axillary	Leukemia Mononuclear	
	Bronchial	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 1-25

[Leukemia Mononuclear TGLS = 13-2]

[Leukemia Mononuclear TGLS = 2-2]

Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 16-1			
Preputial Gland		Inflammation	Subacute, Focal, Mild
Seminal Vesicle		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2-1			
Stomach	Glandular	Erosion	Multiple, Mild
Note: EROSION TGLs = 18-6			
Testes	Interstitial Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 4-9			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Prostate
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mediastinal
Pancreas
Skin
Thymus

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus

Mild
Chronic, Minimal

Biliar Tract

Proliferation

Minimal

Lung

Granuloma

Multiple, Mild

Lymph Node

Mandibular

Ectasia

Mild

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Moderate

[Adenoma TGLS = 3-1]

[Angiectasis TGLS = 3-1]

Preputial Gland

Adenoma

Note: [ADENOMA] TGLs = 1-25

Testes

Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 46	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Biliar Tract	Proliferation	Minimal
Lung		Granuloma	Multiple, Minimal
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Mild
Testes	Interstit Cell	Adenoma	Multiple
	Interstit Cell	Adenoma	Multiple

Note: ADENOMA TGLs = 6-9

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 666

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Multifocal, Mild
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Hyperplasia	Mild
[Ectasia TGLS = 1-2]			
[Hyperplasia TGLS = 1-2]			
Nose		Foreign Body	Mild
		Fungus	Mild
		Inflammation	Suppurative, Acute, Moderate
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-9		
Tongue		Foreign Body	Mild
		Inflammation	Granulomatous, Moderate
		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 10-25		
Note: INFLAMMATION	TGLs = 10-25		
Note: FOREIGN BODY	TGLs = 10-25		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 689

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-10]			
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 2-25			
Nose		Foreign Body	Mild
Pancreas		Adenoma	
		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA TGLs = 9-1			
[Adenoma TGLS = 9-1]			
[Pigmentation TGLS = 9-1]			
Spinal Cord		Degeneration	Moderate
Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 689

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 3-9

Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Preputial Gland
Spleen
Thyroid Gland

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Clear Cell Focus
Eosinophilic Focus
Proliferation
Granuloma

Chronic, Minimal

Lung
[Granuloma TGLS = 6-4]

Biliar Tract

Adenoma

Mild
Multiple, Mild

Testes
[Adenoma TGLS = 5-9]

Interstit Cell

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Biliar Tract	Proliferation	Mild
Note: DEGENERATION IS ON SLIDE 23.			
Pancreas		Atrophy	Multifocal, Mild
		Hyperplasia	Multifocal, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-9]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mesenteric	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Minimal
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: CYST TGLs = 1-21+6,2-21,3-22,5-23
 Note: INFLAMMATION TGLs = 1-6+21,2-21,3-22
 Note: HYPERPLASIA TGLs = 4-23,5-23,6-24,7-25
 Note: HYPERPLASIA TGLs = 1-6+21,2-21,3-22
 Note: FIBROSIS TGLs = 4-23,5-23,6-24,7-25

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 1-6+21,2-21,3-22

Note: INFLAMMATION TGLs = 4-23,5-23,6-24,7-25

Note: HYPERPLASIA TGLs = 2-21,3-22,5-23,6-24,7-25

Note: NEOVASCULARIZATION OF CYST IS ON SLIDE 23.

Note: CYST MULTILOC IS ON SLIDE 25.

[Metaplasia TGLS = 1-21+6,4-23,6-24]

Lymph Node	Mandibular	Ectasia	Marked
	Mediastinal	Ectasia	Minimal
	Renal	Ectasia	Marked
Note: ECTASIA TGLs = 9-27			
Mammary Gland	Duct	Cyst	
Mesentery		Cholangiocarcinoma	Metastatic (Liver)
		Pigmentation	Hemosiderin, Multifocal, Mild
Note: METASTATIC LESION IS ON SLIDE #4 WITH STOMACH.			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Atrophy	Multifocal, Minimal
		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Intermed	Cyst	
Spleen		Congestion	Mild
		Sarcoma	
Note: [SARCOMA] TGLs = 8-26			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 10-7			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mesenteric	Nose	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 13-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52

TRT#: 3

DOSE: 8 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST MULTILOC IS ON SLIDE #6.

Note: HYPERPLASIA TGLs = 2-6+22,4-24,5-25

Note: HEMORRHAGE IS ON SLIDE 25.

[Cytomegaly TGLs = 1-6+21,2-22,3-23,4-24,5-25]

[Degeneration TGLs = 1-6+21,2-22,3-23,4-24,5-25]

[Fibrosis TGLs = 1-6+21,2-22,3-23,4-24,5-25]

[Hyperplasia TGLs = 1-6+21,3-23]

[Hyperplasia TGLs = 6-6+21+22+23+24+25]

[Necrosis TGLs = 1-6+21,3-23]

Lung Granuloma Multiple, Minimal

Leukemia Mononuclear

Fat, Mediastinum

Necrosis

Multifocal, Mild

Lymph Node

Mandibular

Ectasia

Mild

Mediastinal

Ectasia

Mild

Mediastinal

Leukemia Mononuclear

Note: ECTASIA TGLs = 10-3

Note: LEUKEMIA MONUC TGLs = 10-3

Mammary Gland

Duct

Cyst

Duct

Hemorrhage

Focal, Moderate

Note: CYST TGLs = 12-8

Note: HEMORRHAGE TGLs = 12-8

Mesentery

Fat

Mesothelioma Malignant

Necrosis

Focal, Marked

Pigmentation

Hemosiderin, Multifocal, Mild

Note: MESOTHELIO MAL TGLs = 7-26+27+4+6+7+7-1

Note: MULTIFOCAL HEMOSIDERIN IS ON SLIDES 7 AND 7-1.

Note: NECROSIS TGLs = 9-27

Pancreas

Hyperplasia

Focal, Mild

Note: FOCAL HYPERPLASIA IS IN SLIDE #4.

Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Spleen

Congestion

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 52	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstitial Cell	Hematopoietic Cell Proliferation Leukemia Mononuclear Mesothelioma Malignant Adenoma Mesothelioma Malignant	Minimal Multiple
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Note: ADENOMA TGLs = 8-7

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Islets, Pancreatic	Pancreas
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Mild
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: INFLAMMATION TGLs = 7-22,8-23,9-24,11-25

Note: CYST MULTILOC IS ON SLIDE 25-1.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 5-6+6-1+21,6-21

Note: CYST MULTIFOCAL IS ON SLIDES #21 AND #25.

Note: FIBROSIS TGLs = 5-6+6-1+21,6-21

Note: HYPERPLASIA TGLs = 7-6+22,9-23+24,11-25,6-21

Note: NEOVASCULIZATION OF CYST IS ON SLIDE 24.

[Cytomegaly TGLS = 5-6+6-1+21,6-21]

[Inflammation TGLS = 5-6+22,8-23,6-21,10-25]

[Necrosis TGLS = 7-22,8-23,9-24,11-25]

[Pigmentation TGLS = 5-6+21+22+23,10-25]

[Vacuolization Cytoplasmic TGLS = 7-22,8-23,9-24,11-25]

Lung		Infiltration Cellular	Histiocyte, Multifocal, Minimal
Lymph Node	Renal	Ectasia	Moderate
	Mediastinal	Hyperplasia	Mild
	Mediastinal	Pigmentation	Hemosiderin, Mild
Note: HYPERPLASIA	TGLs = 15-3		
Note: ECTASIA	TGLs = 13-29		
Note: PIGMENT	TGLs = 15-3		
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 1-8,2-26		
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 4-21		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: PIGMENT	TGLs = 14-1		
Note: ANGIECTASIS	TGLs = 14-1		
Note: ADENOMA	TGLs = 14-1		
Spleen		Congestion	Minimal
		Fibrosis	Focal, Marked
		Hematopoietic Cell Proliferation	Mild
Note: FIBROSIS	TGLs = 12-28		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 53	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes Note: ADENOMA TGLs = 3-1	Interstit Cell	Adenoma	Multiple
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Prostate
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Parathyroid Gland
Salivary Glands
Thyroid Gland

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Biliar Tract

Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte

Kupffer Cell
Hepatocyte

Hyperplasia
Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Adenoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Neovascularization
Pigmentation
Vacuolization Cytoplasmic

Mild
Mild
Chronic, Moderate
Multiple
Multiple, Marked

Marked
Multifocal, Moderate
Multifocal, Marked

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Mild
Multifocal, Mild
Moderate

Note: [HEPATOCLR ADEN] TGLs = 6-25

Note: CYST MULTILOC IS ON SLIDE 22.

Note: SLIDE #24 GOOD FOR PHOTOGRAPH OF CHOLANGIOCARC.

Note: NEOVASCUZATION OF CYST IS ON SLIDES 21, 23 and 24-1.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

- [Cytomegaly TGLS = 5-24+24-1,6-25+25-1]
- [Degeneration TGLS = 5-24+24-1,6-25+25-1]
- [Fibrosis TGLS = 2-6+21,3-22,4-23]
- [Hyperplasia TGLS = 5-24+24-1,6-25+25-1]
- [Hyperplasia TGLS = 2-6+21,3-22,4-23]
- [Inflammation TGLS = 2-6+21,4-23,5-24+24-1]
- [Necrosis TGLS = 3-6+22,4-23,5-24,6-25,2-21]
- [Pigmentation TGLS = 4-21+6+23+24+24-1]
- [Vacuolization Cytoplasmic TGLS = 2-6+21,3-22,4-23]

Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Focal, Minimal Histiocyte, Focal, Minimal
Lymph Node	Mesenteric Pancreatic Mediastinal Pancreatic	Ectasia Ectasia Hyperplasia Hyperplasia	Mild Moderate Mild Moderate
Note: HYPERPLASIA	TGLs = 10-3		
Note: HYPERPLASIA	TGLs = 8-27		
Note: ECTASIA	TGLs = 8-27		
Pancreas		Hyperplasia	Focal, Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 1-26		
Spleen		Congestion Hematopoietic Cell Proliferation	Mild Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 7-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:03
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Nose	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: CYST MULTILOC IS ON SLIDES 21 AND 23.

Note: NEOVASCUZATION OF CYST IS ON SLIDE 23-1.

Note: CHOLANGIOCARC TGLs = 3-6+21,4-22,5-23+23-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [HEPATOCLR ADEN] TGLs = 7,8-25+26

[Cyst TGLS = 3-6+21,4-22,5-23+23-1]

[Cytomegaly TGLS = 7-25,8-26,5-23-1,7-25-1]

[Degeneration TGLS = 3-6+21,4-22,5-23,6-24]

[Fibrosis TGLS = 3-6+21,4-22,5-23,6-24]

[Hyperplasia TGLS = 6-24,7-25,8-26]

[Hyperplasia TGLS = 3-6+21,4-22,5-23+23-1]

[Inflammation TGLS = 7-25,8-26,5-23-1,7-25-1]

[Necrosis TGLS = 7-25,8-26,5-23-1,7-25-1]

[Pigmentation TGLS = 3-6+21,4-22,5-23,6-24]

[Vacuolization Cytoplasmic TGLS = 6-24]

Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 9-1		
Preputial Gland		Inflammation	Suppurative, Acute, Focal, Mild
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Edema	Focal, Marked
	Subcut Tiss	Inflammation	Subacute, Focal, Mild
Note: EDEMA	TGLs = 1-27,10-28		
[Edema TGLS = 1-27,10-28]			
Spleen		Congestion	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 688

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Prostate

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 10-6			
Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 688

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CHOLANGIOCARC TGLs = 5-6+21,6-22,7-23,8-24
 Note: LEUKEMIA MONUC TGLs = 2-6+21+22+23+24+25
 Note: FIBROSIS TGLs = 5-6+21,6-22,7-23,8-24,9-25
 [Cytomegaly TGLS = 5-6+21,6-22,7-23,8-24,9-25]
 [Degeneration TGLS = 5-6+21,6-22,7-23,8-24]
 [Fibrosis TGLS = 5-6+21,6-22,7-23,8-24,9-25]
 [Vacuolization Cytoplasmic TGLS = 5-6+21,6-22,7-23,8-24,9-25]

Lung	Mediastinum	Leukemia Mononuclear Leukemia Mononuclear	
	Fat, Mediastinum	Necrosis	Multifocal, Mild
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
	Pars Intermed	Leukemia Mononuclear	
Skin	Subcut Tiss	Fibroma	
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Ulcer	Multiple, Mild
Testes	Interstit Cell	Adenoma	Multiple
		Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Jejunum
Prostate
Stomach - Glandular

Bone
Intestine Large - Rectum
Islets, Pancreatic
Salivary Glands
Trachea

Epididymis
Intestine Small - Duodenum
Pancreas
Skin

Esophagus
Intestine Small - Ileum
Parathyroid Gland
Stomach - Forestomach

MISSING

Adrenal Gland - Medulla

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	Multiple
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 57	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Hepatocyte	Vacuolization Cytoplasmic	Moderate
<p>Note: [HEPATOCLR ADEN] TGLs = 5-24+25 Note: CYST MULTILOC IS ON SLIDE 23. [Cytomegaly TGLS = 4-24,5-25+25-1] [Degeneration TGLS = 4-24,5-25+25-1] [Fibrosis TGLS = 1-6-1+21,2-22,3-23+23-1] [Hyperplasia TGLS = 1-6-1+21,2-22,3-23+23-1] [Hyperplasia TGLS = 4-24,5-25+25-1] [Inflammation TGLS = 1-21,2-22,3-23+23-1] [Necrosis TGLS = 1-6-1+21,3-23+23-1,4-24,5-25] [Pigmentation TGLS = 1-21,2-22,3-23+23-1] [Vacuolization Cytoplasmic TGLS = 1-6-1+21,2-22,3-23+23-1]</p>			
Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: ECTASIA	TGLs = 8-26		
Mammary Gland	Duct	Cyst	
Nose	Submucosa	Foreign Body	Mild
	Submucosa	Inflammation	Chronic, Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 6-7		
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:03
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial	Parathyroid Gland	Thyroid Gland
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OBSERVATIONS

Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hemorrhage	Multifocal, Mild
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: CYST MULTILOC IS ON SLIDES 6 AND 25-1.

Note: HEPATOCLR CARC IS ON SLIDE 6.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE IS ON SLIDE 21.

[Cyst TGLS = 2-21,3-22,4-23+23-1,5-24,6-25]

[Cytomegaly TGLS = 5-24,6-25+25-1]

[Degeneration TGLS = 5-24,6-25+25-1]

[Fibrosis TGLS = 2-6+21,3-22,4-23+23-1]

[Hyperplasia TGLS = 2-6+21,3-22,4-23+23-1]

[Hyperplasia TGLS = 5-24,6-25+25-1]

[Inflammation TGLS = 2-21,3-22,4-23+23-1,5-24,6-25]

[Necrosis TGLS = 2-6+21,3-22,4-23]

[Pigmentation TGLS = 5-24,6-25+25-1]

[Vacuolization Cytoplasmic TGLS = 2-6+21,3-22,4-23+23-1]

Lung		Granuloma	Multiple, Minimal
Lymph Node	Mediastinal	Ectasia	Mild
Note: ECTASIA	TGLs = 7-3		
Pancreas		Hyperplasia	Multifocal, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:03
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 59 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 686
DOSE: 8 MG/KG **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mediastinal
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	Multiple
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 686 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Kupffer Cell	Pigmentation	Multifocal, Mild
Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: [HEPATOCLR ADEN] TGLs = 8,9,10-22+26+27

Note: CYST MULTILOC IS ON SLIDE 22.

[Cyst TGLS = 4-6+21,5-22,6-23,7-24]

[Cytomegaly TGLS = 8-25,9-26,10-27]

[Degeneration TGLS = 8-25,9-26,10-27]

[Fibrosis TGLS = 4-6+21,5-22,6-23,7-24]

[Hyperplasia TGLS = 4-6+21,5-22,6-23]

[Hyperplasia TGLS = 8-25,9-26,10-27]

[Inflammation TGLS = 4-6+21,5-22,6-23,7-24]

[Necrosis TGLS = 4-6+21,5-22,7-24]

[Pigmentation TGLS = 7-24,8-25,9-26,10-27]

[Vacuolization Cytoplasmic TGLS = 4-6+21,5-22,6-23,7-24]

Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Ectasia	Mild
	Pancreatic	Ectasia	Moderate
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-28		
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6-1		
Stomach	Forestomach	Hyperplasia	Squamous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 686

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach

Ulcer

Multiple, Mild

Interstitial Cell

Adenoma

Testes

Note: ADENOMA

TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 645

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: FIBROSIS TGLs = 8-24,9-25,10-27

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 645

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 5-6+21,6-22,7-23

Note: [HEPATOCLR ADEN] TGLs = 9-25

[Cytomegaly TGLs = 5-6+21,6-22,7-23]

[Degeneration TGLs = 5-6+21,6-22,7-23]

[Hyperplasia TGLs = 5-6+21,6-22,7-23]

[Hyperplasia TGLs = 8-24,9-25,10-27]

[Inflammation TGLs = 5-21,6-22,7-23,8-24]

[Necrosis TGLs = 8-24,9-25,10-27]

[Pigmentation TGLs = 5-21,6-22,7-23,8-24]

[Vacuolization Cytoplasmic TGLs = 8-24,9-25,10-27]

Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Ectasia	Moderate
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

Note: ECTASIA TGLs = 3-26

Note: LEUKEMIA MONUC TGLs = 3-26

Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Minimal
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Leukemia Mononuclear	

Note: ANGIECTASIS TGLs = 11-1

Note: ADENOMA TGLs = 11-1

Note: LEUKEMIA MONUC TGLs = 11-1

Preputial Gland		Adenoma	
	Duct	Cyst	
Note: ADENOMA	TGLs = 1-8-1		
Note: CYST	TGLs = 1-8-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 60	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 645 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen Note: LEUKEMIA MONUC TGLs = 4-6		Leukemia Mononuclear	
Stomach Note: LEUKEMIA MONUC TGLs = 12-4 Note: ULCER TGLs = 12-4	Glandular Glandular	Leukemia Mononuclear Ulcer	Mild
Testes Note: ADENOMA TGLs = 2-7	Interstit Cell	Adenoma	Multiple
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 448

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Skin
Thyroid Gland

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Thymus

MISSING

Lymph Node - Bronchial

Lymph Node - Mediastinal

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Mild
Multiple
Multiple, Moderate
Moderate
Multifocal, Marked
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Marked
Multifocal, Mild
Marked

Note: TGL 7 IS ON SLIDE V.

Note: TGL 2 IS ON SLIDE I.

Note: TGL 8 IS ON ALL LIVER SLIDES.

Note: TGL 6 IS ON SLIDE IV.

Note: TGL 5 IS ON SLIDE III.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 448

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 4 IS ON SLIDE II.

Note: TGL 3 IS ON SLIDE II.

[Cytomegaly TGLS = 2,3,4,5,6,7,8]

[Degeneration TGLS = 2,3,4,5,6,7,8]

[Fibrosis TGLS = 2,3,4,5,6,7,8]

[Hyperplasia TGLS = 2,3,4,5]

[Hyperplasia TGLS = 2,3,4,5,6,7,8]

[Necrosis TGLS = 2,3,4,5,6,7,8]

[Pigmentation TGLS = 2,3,4,5]

[Vacuolization Cytoplasmic TGLS = 2,3,4,5,6,7,8]

Lung

Congestion

Moderate

Foreign Body

Mild

Note: CONGESTION TGLs = 9-4

Spleen

Hematopoietic Cell Proliferation

Mild

Testes

Interstitial Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Eye	Cornea	Cyst	
	Retina	Degeneration	Marked
Note: DEGEN	TGLs = 1-44		
Note: CYST	TGLs = 1-44		
Heart		Cardiomyopathy	Moderate
Kidney	Cortex	Fibrosis	Focal, Moderate
		Nephropathy	Chronic, Moderate
Note: FIBROSIS	TGLs = 15-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 695 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Biliar Tract	Metaplasia	Marked
Hepatocyte	Necrosis	Multifocal, Mild
Kupffer Cell	Pigmentation	Multifocal, Mild
Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: CYST MULTILOC ON SLIDE 6.

Note: [HEPATOCLR ADEN] TGLs = 12-25

[Cytomegaly TGLS = 6-6+21,7-22,8-23,9-24,10-25]

[Degeneration TGLS = 9-24,10-25,11-29]

[Fibrosis TGLS = 6-6+21,7-22,8-23,9-24,10-25]

[Hyperplasia TGLS = 6-6+21,7-22,8-23,9-24,10-25]

[Hyperplasia TGLS = 6-6+21,8-23,9-24,11-29]

[Necrosis TGLS = 6-6+21,7-22,8-23,9-24,10-25]

[Pigmentation TGLS = 11-29]

[Vacuolization Cytoplasmic TGLS = 6-6+21,7-22,8-23]

Lymph Node	Mediastinal	Ectasia	Moderate
	Pancreatic	Ectasia	Moderate
	Pancreatic	Hyperplasia	Mild

Note: HYPERPLASIA TGLs = 4-27

Note: ECTASIA TGLs = 13-3

Note: ECTASIA TGLs = 4-27

Mesentery	Fat	Necrosis	Focal, Marked
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Note: NECROSIS TGLs = 5-28

Pancreas		Hyperplasia	Focal, Moderate
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Skin		Basal Cell Carcinoma	
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Note: BASAL CEL CARC TGLs = 2-26

Spleen		Hematopoietic Cell Proliferation	Moderate
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Testes	Interstit Cell	Adenoma	Multiple
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Note: ADENOMA TGLs = 3-7

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thymus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Thyroid Gland

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Prostate
Stomach - Glandular
Trachea

Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Testes
Urinary Bladder

MISSING

Lymph Node - Bronchial

Lymph Node - Mediastinal

OBSERVATIONS

Bone Marrow
Brain
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Centrilobular
Hepatocyte
Kupffer Cell
Hepatocyte

Leukemia Mononuclear
Leukemia Mononuclear
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Chronic, Mild
Multiple
Multiple, Moderate
Moderate
Multifocal, Moderate
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Moderate
Chronic, Multifocal, Moderate

Moderate
Mild
Multifocal, Moderate
Multifocal, Moderate
Mild

Note: TGL 5 IS ON SLIDE II.

[Cytomegaly TGLS = 4-5,5]

[Degeneration TGLS = 4-5,5]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 63	TRT#: 3	SEX: Male	DAY ON TEST: 421
	DOSE: 8 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4-5,5]
[Hyperplasia TGLS = 3-5]
[Hyperplasia TGLS = 4-5,5]
[Necrosis TGLS = 4-5,5]
[Vacuolization Cytoplasmic TGLS = 4-5,5]

Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Ectasia	Moderate
Note: TGL 1 IS ON SLIDE I.			
Note: ECTASIA TGLs = 1			
Pancreas		Hyperplasia	Focal, Mild
Note: FOCAL HYPERPLASIA IS ON SLIDE I.			
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Preputial Gland	Duct	Cyst	
Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 9-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: TGL 1, 2, AND 3 ARE ON SLIDES I, II, AND III.

[Cytomegaly TGLS = 5-23+23-1,6-24,7-25]

[Degeneration TGLS = 5-23+23-1,6-24,7-25]

[Fibrosis TGLS = 3-6+21+21-1,4-22]

[Hyperplasia TGLS = 3-6+21+21-1,4-22]

[Hyperplasia TGLS = 5-23+23-1,6-24,7-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 3-21,4-22,5-23+23-1,7-25]
 [Necrosis TGLS = 6-24,3-21,4-22,5-23,7-25]
 [Pigmentation TGLS = 3-21,4-22,5-23+23-1,7-25]
 [Vacuolization Cytoplasmic TGLS = 3-6+21+21-1,4-22]

Lung		Granuloma	Multiple, Minimal
Lymph Node	Mandibular	Ectasia	Mild
	Bronchial	Hyperplasia	Mild
	Mandibular	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 8-3		
Mammary Gland	Duct	Cyst	
Pancreas		Adenoma	
		Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Mild
		Degeneration	Fatty, Multifocal, Mild
		Fibrosis	Focal, Moderate
		Hematopoietic Cell Proliferation	Mild
Note: FIBROSIS	TGLs = 2-6		
Note: DEGEN	TGLs = 2-6		
Testes	Interstitial Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Preputial Gland
Salivary Glands	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone		Fibrous Osteodystrophy	Minimal
Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
		Mineralization	Multifocal, Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 2-5+5.1		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: [HEPATOCLR ADEN] TGLs = 5-22

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 65	TRT#: 3	SEX: Male	DAY ON TEST: 656
	DOSE: 8 MG/KG	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CHOLANGIOCARC TGLs = 4-6+21,6-23,7-24
[Cytomegaly TGLs = 4-6+21,5-22,6-23,7-24]
[Degeneration TGLs = 4-6+21,5-22,6-23,7-24]
[Fibrosis TGLs = 4-6+21,5-22,6-23,7-24]
[Necrosis TGLs = 4-6+21,6-23,7-24]
[Vacuolization Cytoplasmic TGLs = 4-6+21,5-22,7-24,3-6+21]

Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
Note: ANGIECTASIS	TGLs = 8-1		
Note: HYPERPLASIA	TGLs = 8-1		
Prostate		Inflammation	Subacute, Marked
Spleen		Congestion	Mild
		Fibrosis	Focal, Mild
		Hematopoietic Cell Proliferation	Minimal
Stomach	Forestomach	Ulcer	Multiple, Marked
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Parathyroid Gland
Preputial Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Brain		Carcinoma	Metastatic (Pituitary Gland)
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: FIBROSIS TGLs = 3-6-1+21,4-22,5-23,6-24,7-25

Note: BEST EXAMPLE OF CYST MULTILOC IS ON SLIDE 6-1.1.

Note: HEPATOCLR CARC IS ON SLIDES 6 AND 23.

[Cytomegaly TGLS = 3-6-1+21,4-22,6-24,7-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

DOSE: 8 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 695

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 3-6-1+21,4-22,5-23,6-24,7-25]

[Fibrosis TGLS = 3-6-1+21,4-22,5-23,6-24,7-25]

[Hyperplasia TGLS = 5-23+6]

[Hyperplasia TGLS = 3-6+21,4-22,5-23,6-24,7-25]

[Necrosis TGLS = 3-6+21,4-22,5-23,6-24,7-25]

[Vacuolization Cytoplasmic TGLS = 2-6+6.1+22+24+25]

Lymph Node	Pancreatic Mandibular Mediastinal	Ectasia Hyperplasia Hyperplasia	Mild Mild Mild
Note: HYPERPLASIA TGLs = 10-3			
Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 1-8			
Nose		Foreign Body Inflammation	Mild Suppurative, Acute, Mild
Pancreas		Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Carcinoma	
Note: [CARCINOMA] TGLs = 8-1			
Prostate		Inflammation	Subacute, Minimal
Spleen		Congestion Hematopoietic Cell Proliferation	Mild Mild
Testes	Interstit Cell	Adenoma	Multiple
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:03
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Mammary Gland	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: FIBROSIS TGLs = 1-6+21+21-1,3-22,4-23

Note: CYST MULTILOC IS ON SLIDES 6, 22, AND 25.

Note: CYST MULTILOC IS ON SLIDE 21.

Note: FIBROSIS TGLs = 5-24,6-25+25-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

- [Degeneration TGLS = 5-24,6-25+25-1]
- [Hyperplasia TGLS = 1-6+21+21-1,3-22,4-23]
- [Hyperplasia TGLS = 5-24,6-25+25-1]
- [Inflammation TGLS = 1-21+21-1,3-22,4-23]
- [Necrosis TGLS = 2-22,5-24,6-25+25-1]
- [Pigmentation TGLS = 1-21+21-1,3-22,4-23]
- [Vacuolization Cytoplasmic TGLS = 1-6+21+21-1,3-22,4-23]

Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Ectasia	Moderate
	Pancreatic	Ectasia	Marked
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-28		
Note: ECTASIA	TGLs = 11-28		
Note: LEUKEMIA MONUC	TGLs = 8-26		
Note: ECTASIA	TGLs = 8-26		
Nose		Foreign Body	Mild
		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
		Adenoma	
Pancreas			
Note: ADENOMA	TGLs = 10-27		
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland	Duct	Cyst	
		Inflammation	Suppurative, Acute, Focal, Marked
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-6		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 7-7		
Thyroid Gland	Follicle	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 665

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Preputial Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Mammary Gland
Prostate
Thymus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Heart
Kidney
 Note: NEPHROPATHY TGLs = 16-5+5.1
Liver

Biliar Tract

Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte

Kupffer Cell
Hepatocyte

Hyperplasia
Cardiomyopathy
Nephropathy

Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Neovascularization
Pigmentation
Vacuolization Cytoplasmic

Moderate
Moderate
Chronic, Marked

Multiple
Multiple, Marked

Marked
Multifocal, Moderate
Multifocal, Marked
Multiple

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Marked
Mild
Multifocal, Mild
Marked

Note: [HEPATOCLR ADEN] TGLs = 7-21+25

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

DOSE: 8 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 665

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NEOVASCUZATION OF CYST IS ON SLIDE 28.

[Cholangiocarcinoma TGLS = 8-27]

[Cyst TGLS = 8-27]

[Cytomegaly TGLS = 6-24,7-25,8-27,9-28]

[Degeneration TGLS = 6-24,7-25,8-27,9-28]

[Fibrosis TGLS = 3-6+21,4-22,5-23]

[Hyperplasia TGLS = 3-6+21,4-22,5-23]

[Hyperplasia TGLS = 6-24,7-25,8-27,9-28]

[Inflammation TGLS = 3-6+21,4-22,5-23,6-24,9-28]

[Necrosis TGLS = 3-6+21,4-22,5-23,6-24]

[Pigmentation TGLS = 3-6+21,4-22,5-23,6-24,9-28]

[Vacuolization Cytoplasmic TGLS = 3-6+21,4-22,5-23]

Lymph Node

Mediastinal

Pancreatic

Ectasia

Hyperplasia

Mild

Moderate

Note: ECTASIA TGLs = 14-3

Note: HYPERPLASIA TGLs = 12-29

Pancreas

Adenoma

Hyperplasia

Focal, Mild

Note: ADENOMA TGLs = 13-30

Parathyroid Gland

Hyperplasia

Mild

Skin

Keratoacanthoma

Note: KERATOACANTHMA TGLs = 1-26+26-1

Spleen

Congestion

Mild

Hematopoietic Cell Proliferation

Marked

Leukemia Mononuclear

Note: HEMA CELL PROL TGLs = 10-6

Note: CONGESTION TGLs = 10-6

Note: LEUKEMIA MONUC TGLs = 10-6

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 583

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: [HEPATOCLR ADEN] TGLs = 5-22
 [Cytomegaly TGLs = 4-6+21,5-22,6-23,7-24,8-25]
 [Degeneration TGLs = 4-6+21,5-22,6-23,7-24,8-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

DOSE: 8 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 583

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4-6+21,5-22,6-23,7-24,8-25]

[Hyperplasia TGLS = 4-6+21,6-23,7-24]

[Hyperplasia TGLS = 3-6+21+22+23+24+25]

[Necrosis TGLS = 4-6+21,6-23,7-24]

[Vacuolization Cytoplasmic TGLS = 4-6+21,5-22,6-23,7-24,8-25]

Lung	Alveolar Epith	Hemorrhage Hyperplasia Infiltration Cellular Leukemia Mononuclear Pigmentation	Focal, Mild Focal, Mild Histiocyte, Focal, Mild Cholesterol, Focal, Mild
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Note: PIGMENT TGLs = 10-2

Note: INFILTRAT CELL TGLs = 10-2

Note: HYPERPLASIA TGLs = 10-2

Lymph Node	Pancreatic Pancreatic	Ectasia Leukemia Mononuclear	Moderate
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Note: ECTASIA TGLs = 9-26

Note: LEUKEMIA MONUC TGLs = 9-26

Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 2-6-1

Testes	Interstit Cell	Adenoma	Multiple
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Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:03
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 667

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mediastinal	Mammary Gland	Nose	Parathyroid Gland
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	Mild
Bone Marrow		Leukemia Mononuclear	
Eye		Cataract	Marked
	Retina	Degeneration	Marked
Note: CATARACT	TGLs = 1-44		
Note: DEGEN	TGLs = 1-44		
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 667 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Hepatocyte	Necrosis	Multifocal, Mild
	Neovascularization	Mild
Kupffer Cell	Pigmentation	Multifocal, Mild
Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: NEOVASCUZATION OF CYST IS ON SLIDE 23.

Note: FIBROSIS TGLs = 8-6+21,9-22,10-23

Note: LEUKEMIA MONUC TGLs = 7-6+21+22+23+24+25+28

Note: CYST MULTILOC IS ON SLIDE 23.

Note: [HEPATOCLR ADEN] TGLs = 13-28

Note: CYST MULTILOC IS ON SLIDES 6 AND 25.

[Cytomegaly TGLS = 8-6+21,9-22,10-23]

[Degeneration TGLS = 8-6+21,9-22,10-23,11-24,12-25]

[Fibrosis TGLS = 11-24,12-25,13-28]

[Hyperplasia TGLS = 11-24,12-25,13-28]

[Hyperplasia TGLS = 8-6+21,9-22,10-23,11-24,12-25]

[Necrosis TGLS = 8-6+21,9-22,10-23]

[Pigmentation TGLS = 8-6+21,9-22,10-23,11-24,12-25]

[Vacuolization Cytoplasmic TGLS = 11-24,12-25,13-28]

Lymph Node	Mesenteric	Ectasia	Mild
	Pancreatic	Ectasia	Marked
	Mandibular	Leukemia Mononuclear	

Note: ECTASIA TGLs = 5-27

Pancreas		Atrophy	Focal, Minimal
		Hyperplasia	Multifocal, Mild

Note: HYPERPLASIA TGLs = 6-7

Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Edema	Focal, Marked
	Subcut Tiss	Inflammation	Subacute, Focal, Moderate
		Squamous Cell Papilloma	

Note: INFLAMMATION TGLs = 15-29

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 70	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 667 HISTO:
----------------------	----------------------------------------	-------------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

Note: EDEMA TGLs = 15-29
Note: PAPILLOMA SQUA TGLs = 2-26
Spleen

Congestion
Hematopoietic Cell Proliferation
Leukemia Mononuclear

Mild
Mild

Note: CONGESTION TGLs = 4-6
Note: LEUKEMIA MONUC TGLs = 4-6

Testes Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Capsule, Cortex	Fibrosis	Focal, Mild
Bone Marrow		Hyperplasia	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Cholangiocarcinoma	Multiple
		Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	Multiple
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
		Thrombosis	
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: TGL 3 THROUGH 8 ARE ON SLIDES I THROUGH V.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

DOSE: 8 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 695

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: THROMBUS IS ON SLIDE 25.

Note: NEOVASCULATION OF CYST IS ON SLIDE 25.

Note: CYST MULTILOC IS ON SLIDE 23.

[Cytomegaly TGLS = 3-6+21,4-22,5-23,6-24,7-25]

[Degeneration TGLS = 3-6+21,4-22,5-23,6-24,7-25]

[Fibrosis TGLS = 3-6+21,4-22,5-23,6-24,7-25]

[Hyperplasia TGLS = 3-6+21,4-22,5-23,7-25]

[Necrosis TGLS = 3-6+21,4-22,5-23,7-25]

[Vacuolization Cytoplasmic TGLS = 3-6+21,4-22,5-23,6-24,7-25]

Lymph Node Mediastinal

Ectasia

Mild

Note: ECTASIA TGLs = 8-3

Preputial Gland

Adenoma

Note: [ADENOMA] TGLs = 1-26

Spleen

Congestion

Minimal

Hematopoietic Cell Proliferation

Minimal

Stomach Forestomach, Serosa

Fibrosis

Focal, Mild

Testes Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Preputial Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Mammary Gland
Prostate
Stomach - Glandular

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Parathyroid Gland
Salivary Glands
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pituitary Gland
Skin
Trachea

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte

Kupffer Cell
Hepatocyte

Hyperplasia
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Neovascularization
Pigmentation
Vacuolization Cytoplasmic

Mild
Moderate
Chronic, Marked

Multiple
Multiple, Marked
Marked
Multifocal, Moderate
Multifocal, Marked

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Mild
Multifocal, Mild
Moderate

Note: FIBROSIS TGLs = 2-6+21,3-22,4-22,
Note: INFLAMMATION TGLs = 2-6+21,3-22,4-22,

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 72	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 8 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST MULTILOC IS ON SLIDE 25.

Note: INFLAMMATION TGLs = 5-23,6-24,9-25

Note: CHOLANGIOCARC TGLs = 2-6+21,3-22,5-23,6-24

Note: HEPATOCLR CARC TGLs = 8-25-1

Note: NEOVASCUZATION OF CYST IS ON SLIDE 24.

Note: HYPERPLASIA TGLs = 5-23,6-24,9-25

[Hepatocellular Carcinoma TGLS = 5-23,6-24,9-25]

[Necrosis TGLS = 2-6+21,3-22,5-23,6-24]

[Neovascularization TGLS = 2-6+21,3-22,4-22,]

[Vacuolization Cytoplasmic TGLS = 2-6+21,3-22,5-23,6-24,7-25]

Lymph Node	Mandibular	Ectasia	Mild
Nose		Inflammation	Suppurative, Acute, Mild
Pancreas		Atrophy	Focal, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 10-6		
Note: CONGESTION	TGLs = 10-6		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:03
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Pancreas	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: CYST MULTILOC IS ON SLIDE 21.

Note: INFLAMMATION TGLs = 5-24+24-1,6-25+25-1

Note: NEOVASCUZATION IS ON SLIDES 23 AND 24.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 73	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: NEOVASCUZATION IS ON SLIDE 29.

- [Cytomegaly TGLS = 5-24+24-1,6-25+25-1]
- [Degeneration TGLS = 5-24+24-1,6-25+25-1]
- [Fibrosis TGLS = 2-6+21,3-22,4-23,]
- [Hyperplasia TGLS = 2-6+21,3-22,4-23,5-24+24-1]
- [Hyperplasia TGLS = 2-6+21,3-22,4-23,5-24+24-1]
- [Leukemia Mononuclear TGLS = 2-6+21,3-22,4-23,]
- [Necrosis TGLS = 2-6+21,3-22,4-23,6-25+25-1]
- [Vacuolization Cytoplasmic TGLS = 2-6+21,3-22,4-23,]

Lung		Granuloma	Multiple, Mild
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Fungus	Moderate
	Nasolacrim Dct	Inflammation	Subacute, Mild
		Inflammation	Suppurative, Acute, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Moderate
Note: ADENOMA	TGLs = 7-1		
Note: PIGMENT	TGLs = 8-1		
Note: ANGIECTASIS	TGLs = 8-1		
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 696

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Nose	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Mild
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 696

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST MULTILOC IS ON SLIDE 6.

Note: HYPERPLASIA TGLs = 5-6+21,6-22,7-23,8-24

Note: TGL 5,6,7,8 ARE ON SLIDES I THROUGH V.

Note: TGL 4 IS ON SLIDES I THROUGH V.

Note: TGL 9 IS ON SLIDE V.

Note: NEOVASCUZATION OF CYST IS ON SLIDES 21 AND 23.

Note: LEUKEMIA MONUC TGLs = 4-6+21+22+23+24

Note: CHOLANGIOCARC TGLs = 5-6+21,7-23,8-24

[Cytomegaly TGLS = 5-6+21,6-22,7-23,8-24]

[Degeneration TGLS = 5-6+21,6-22,7-23,8-24]

[Fibrosis TGLS = 5-6+21,6-22,7-23,8-24]

[Necrosis TGLS = 5-6+21,7-23,8-24]

Lung		Hemorrhage	Focal, Mild
Lymph Node	Mediastinal	Ectasia	Mild
	Mesenteric	Ectasia	Mild
	Mediastinal	Hyperplasia	Mild
	Mesenteric	Hyperplasia	Mild
Note: TGL 1 IS ON SLIDE VI.			
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 2-25			
Pancreas		Hyperplasia	Multifocal, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Spleen		Congestion	Moderate
		Leukemia Mononuclear	
Note: CONGESTION TGLs = 3-6			
Note: LEUKEMIA MONUC TGLs = 3-6			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 688

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Preputial Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mediastinal
Prostate
Thymus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Skin
Trachea

MISSING

Lymph Node - Bronchial

Lymph Node - Mandibular

Parathyroid Gland

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Biliar Tract

Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Kupffer Cell

Hepatocyte

Hyperplasia
Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Carcinoma
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Pigmentation
Thrombosis
Vacuolization Cytoplasmic

Mild
Mild
Chronic, Marked
Multiple
Multiple, Marked
Marked
Multifocal, Moderate
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Multifocal, Mild
Moderate

Note: CYST MULTILOC IS ON SLIDES 6, 26 AND 29.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

DOSE: 8 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 688

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: THROMBUS IS ON SLIDE 24.

Note: UNUSUAL NEOPLASM SHOULD BE PHOTOGRAPHED.

[Cyst TGLS = 10-29]

[Cytomegaly TGLS = 7-24,8-25,9-28,11-30]

[Degeneration TGLS = 8-25,9-28,11-30,10-29]

[Fibrosis TGLS = 4-6+21,5-22,6-23]

[Hyperplasia TGLS = 7-24,8-25,9-28,11-30]

[Hyperplasia TGLS = 4-6+21,5-22,6-23]

[Inflammation TGLS = 4-6+21,6-23,7-24,9-28]

[Necrosis TGLS = 5-6+22,8-25,11-30]

[Pigmentation TGLS = 4-6+21,6-23,7-24,9-28]

[Vacuolization Cytoplasmic TGLS = 4-6+21,5-22,6-23,7-24]

Lung		Granuloma	Multiple, Minimal
Lymph Node	Pancreatic	Ectasia	Marked
	Pancreatic	Hyperplasia	Marked
Note: ECTASIA	TGLs = 3-27		
Note: HYPERPLASIA	TGLs = 3-27		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-26		
Pancreas		Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
Stomach	Glandular	Erosion	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: NEOVASCUZATION OS CYST IS ON SLIDE 6.

Note: CYST MULTILOC IS ON SLIDES 22 AND 25.

[Cytomegaly TGLS = 4-6+21,7-22,8-23,9-24,10-25]

[Degeneration TGLS = 4-6+21,7-22,8-23,9-24,10-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4-6+21,7-22,8-23,9-24,10-25]
 [Hyperplasia TGLS = 11-28]
 [Hyperplasia TGLS = 5-6+21,7-22,8-23,9-24,10-25]
 [Necrosis TGLS = 5-6+21,7-22,8-23,9-24,10-25]
 [Vacuolization Cytoplasmic TGLS = 4-6+21,6-22,8-23,9-24,10-25]

Lymph Node	Pancreatic	Ectasia	Mild
	Mediastinal	Hyperplasia	Mild
	Pancreatic	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 2-26		
Note: ECTASIA	TGLs = 2-26		
Note: HYPERPLASIA	TGLs = 12-3		
Pancreas		Hyperplasia	Multifocal, Mild
Note: HYPERPLASIA	TGLs = 3-7+26+27		
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 490

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	

MISSING

Lymph Node - Bronchial	Lymph Node - Mediastinal
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OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: TGL 6 IS ON SLIDE II.

Note: TGL 2 THROUGH 6 ARE ON SLIDES I THROUGH V.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 77	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 490 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 11 IS ON SLIDES I THROUGH V.
 Note: [HEPATOCLR ADEN] TGLs = 10-6
 Note: NEOVASCUZATION IS ON SLIDE IV.
 Note: TGL 3 IS ON ALL LIVER SLIDES.
 Note: TGL 10 IS ON SLIDE VI.
 Note: TGL 9 IS ON SLIDE V.
 Note: TGL 8 IS ON SLIDE IV.
 Note: TGL 7 IS ON SLIDE III.
 Note: TGL 4 IS ON SLIDE I.
 Note: TGL 5 IS ON SLIDE I.

- [Cytomegaly TGLS = 4,5,6,7,8,9,10]
- [Degeneration TGLS = 4,5,6,7,8,9,10]
- [Fibrosis TGLS = 4,5,6,7,8,9,10]
- [Hyperplasia TGLS = 4,5,6,7]
- [Necrosis TGLS = 4,5,6,7]
- [Vacuolization Cytoplasmic TGLS = 3,4,5,6,7,8,9]

Lymph Node	Mandibular	Ectasia	Mild
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 11 Note: TGL 11 IS ON SLIDE VII.			
Pancreas		Hyperplasia	Focal, Mild
		Mesothelioma Malignant	
Spleen		Hematopoietic Cell Proliferation	Marked
		Mesothelioma Malignant	
Note: HEMA CELL PROL TGLs = 2-2			
Testes	Interstit Cell	Adenoma	Multiple
		Mesothelioma Malignant	
Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 456

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Pituitary Gland
Preputial Gland	Prostate	Skin	Stomach - Forestomach
Stomach - Glandular	Urinary Bladder		

MISSING

Esophagus	Lymph Node - Bronchial	Parathyroid Gland	Salivary Glands
Thymus	Thyroid Gland	Trachea	

OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: TGL 3 IS ON SLIDE I.
 Note: TGL 4 IS ON SLIDE II.
 Note: TGL 8 IS ON SLIDE VI.
 Note: TGL 9 IS ON ALL LIVER SLIDES.
 Note: TGL 4 IS ON SLIDE II.
 Note: TGL 7 IS ON SLIDE V.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 78	TRT#: 3	SEX: Male	DAY ON TEST: 456
	DOSE: 8 MG/KG	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 6 IS ON SLIDE IV.

Note: TGL 5 IS ON SLIDE III.

[Cytomegaly TGLS = 3,4,5,6,7,8,9]

[Degeneration TGLS = 3,4,5,6,7,8,9]

[Fibrosis TGLS = 3,4,5,6,7,8,9]

[Hyperplasia TGLS = 4,5]

[Necrosis TGLS = 4,5]

[Vacuolization Cytoplasmic TGLS = 3,4,5,6,7,8,9]

Lung	Mediastinum	Foreign Body	Mild
	Mediastinum	Inflammation	Chronic, Moderate
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Interstit Cell	Adenoma	

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [HEPATOCLR ADEN] TGLs = 8-22

Note: HEPATOCLR CARC TGLs = 8-27,4-22

Note: [HEPATOCLR ADEN] TGLs = 8-27+6

[Cyst TGLS = 3-6+21,4-22,5-23+23-1]

[Cytomegaly TGLS = 6-24,7-25+25-1]

[Degeneration TGLS = 6-24,7-25+25-1]

[Fibrosis TGLS = 3-6+21,4-22,5-23+23-1]

[Hyperplasia TGLS = 3-6+21,4-22,5-23+23-1]

[Hyperplasia TGLS = 6-24,7-25+25-1]

[Inflammation TGLS = 3-6+21,4-22,5-23+23-1]

[Metaplasia TGLS = 4-22,7-25]

[Necrosis TGLS = 3-6+21,4-22,5-23]

[Pigmentation TGLS = 6-24,7-25+25-1]

[Vacuolization Cytoplasmic TGLS = 3-6+21,4-22,5-23+23-1]

Lung	Fat, Mediastinum	Necrosis	Multifocal, Mild
Lymph Node	Pancreatic	Ectasia	Mild
	Pancreatic	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 10-28		
Note: ECTASIA	TGLs = 10-28		
Mammary Gland	Duct	Cyst	
Pancreas		Adenoma	Multiple
		Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Angiectasia	Moderate
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Adenoma	
Note: [ADENOMA]	TGLs = 1-26		
Spleen		Congestion	Moderate
		Leukemia Mononuclear	
Note: CONGESTION	TGLs = 9-6		
Note: LEUKEMIA MONUC	TGLs = 9-6		
Stomach	Forestomach	Edema	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach

Hyperplasia

Mild

Forestomach

Ulcer

Moderate

Note: EDEMA TGLs = 12-4

Interstit Cell

Adenoma

Multiple

Testes

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Preputial Gland
Thymus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Mammary Gland
Prostate
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Salivary Glands
Trachea

Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pituitary Gland
Skin
Urinary Bladder

OBSERVATIONS

Bone
Bone Marrow
Kidney
Note: NEPHROPATHY TGLs = 2-5
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte

Kupffer Cell
Hepatocyte

Fibrous Osteodystrophy
Hyperplasia
Nephropathy

Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Neovascularization
Pigmentation
Vacuolization Cytoplasmic

Minimal
Minimal
Chronic, Moderate

Multiple
Multiple, Marked
Marked
Multifocal, Marked
Multifocal, Marked
Multiple

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Moderate
Mild
Multifocal, Mild
Marked

Note: NEOVASCUZATION IS ON SLIDES 21 AND 22.

Note: [HEPATOCLR ADEN] TGLs = 9-25

Note: [HEPATOCLR CARC] TGLs = 10-26

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

- [Cyst TGLS = 4-6+21,5-22,6-23,7-24]
- [Cytomegaly TGLS = 8-25,9-26,10-27]
- [Degeneration TGLS = 4-6+21,5-22,6-23,7-24]
- [Fibrosis TGLS = 4-6+21,5-22,6-23,7-24]
- [Hyperplasia TGLS = 4-6+21,5-22,6-23,7-24]
- [Hyperplasia TGLS = 4-6+21,6-23,7-24,9-26,10-27]
- [Inflammation TGLS = 4-6+21,5-22,6-23,7-24]
- [Necrosis TGLS = 8-25,9-26,10-27]
- [Pigmentation TGLS = 8-25,9-26,10-27]
- [Vacuolization Cytoplasmic TGLS = 8-25]

Lymph Node	Mediastinal	Ectasia	Mild
	Renal	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 11-28			
Note: ECTASIA TGLs = 13-3			
Pancreas		Hyperplasia	Focal, Mild
Parathyroid Gland		Adenoma	
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
Note: HEMA CELL PROL TGLs = 3-6			
Note: LEUKEMIA MONUC TGLs = 3-6			
[Leukemia Mononuclear TGLS = 3-6]			
Stomach	Forestomach	Edema	Mild
	Glandular	Edema	Mild
	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
	Forestomach	Ulcer	Marked
Note: EDEMA TGLs = 16-4			
Note: EDEMA TGLs = 15-4			
[Edema TGLS = 17-4]			
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 723

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Brain	Epididymis	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mediastinal	Nose	Pancreas
Preputial Gland	Salivary Glands	Skin	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Medulla	Pheochromocytoma Benign	Multiple
Bone		Fibrous Osteodystrophy	Marked
Bone Marrow		Hyperplasia	Mild
Kidney	Cortex	Cyst	Multiple
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4-5			
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hemorrhage	Multifocal, Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 723 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Kupffer Cell	Pigmentation	Multifocal, Mild
Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: HEPATOCLR CARC IS ON SLIDE 6.

Note: CYST MULTILOC IS ON SLIDE 21.

Note: HEMORRHAGE IS ON SLIDE 6.

[Cytomegaly TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Degeneration TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Fibrosis TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Hyperplasia TGLS = 7-21,8-22,9-23]

[Necrosis TGLS = 7-21,8-22,9-23]

[Vacuolization Cytoplasmic TGLS = 7-6+21,8-22,9-23,10-24,11-25]

Lymph Node	Mandibular	Ectasia	Mild
	Mesenteric	Ectasia	Mild
	Pancreatic	Ectasia	Moderate
	Renal	Ectasia	Marked
	Mandibular	Hyperplasia	Mild

Note: ECTASIA TGLs = 5-26

Mammary Gland	Duct	Cyst	
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Note: CYST TGLs = 1-8

Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild

Note: ANGIECTASIS TGLs = 12-1

Note: ADENOMA TGLs = 12-1

Note: PIGMENT TGLs = 12-1

Prostate		Inflammation	Subacute, Moderate
Spleen		Hematopoietic Cell Proliferation	Moderate

Note: HEMA CELL PROL TGLs = 3-6

Stomach	Glandular	Edema	Mild
	Forestomach	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

DOSE: 8 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 723

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Glandular Interstit Cell	Mineralization Adenoma	Multifocal, Mild Multiple
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 443

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Thyroid Gland

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mediastinal
Parathyroid Gland
Skin
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Preputial Gland
Testes

MISSING

Pituitary Gland

Thymus

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Centrilobular
Hepatocyte
Kupffer Cell
Hepatocyte

Cardiomyopathy
Leukemia Mononuclear
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Multiple
Multiple, Moderate
Moderate
Multifocal, Moderate
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Mild
Multifocal, Mild
Multifocal, Mild
Moderate

Note: TGL 11 IS ON SLIDE V.

Note: TGL 6 IS ON ALL LIVER SLIDES.

Note: TGL 9 IS ON SLIDE III.

Note: TGL 8 IS ON SLIDE II.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 82 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 443
DOSE: 8 MG/KG **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 7 IS ON SLIDE I.

Note: TGL 10 IS ON SLIDE IV.

[Cytomegaly TGLS = 7,8,9,10,11]

[Degeneration TGLS = 7,8,9,10,11]

[Fibrosis TGLS = 7,8,9,10,11]

[Hyperplasia TGLS = 6]

[Hyperplasia TGLS = 7,9]

[Necrosis TGLS = 7,9]

[Vacuolization Cytoplasmic TGLS = 7,8,9,10,11]

Lung Hemorrhage Multifocal, Moderate
Leukemia Mononuclear

Note: HEMORRHAGE TGLs = 12-4

Lymph Node Bronchial Leukemia Mononuclear
Mandibular Leukemia Mononuclear
Pancreatic Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4

Note: TGL 4 IS ON SLIDE VII.

Mammary Gland Duct Cyst
Mesentery Fat Hemorrhage Moderate
Leukemia Mononuclear
Fat Necrosis Focal, Moderate

Note: HEMORRHAGE TGLs = 1

Note: NECROSIS TGLs = 1

Note: TGL 1 IS ON SLIDE VI.

Spleen Leukemia Mononuclear
Necrosis Focal, Moderate

Note: LEUKEMIA MONUC TGLs = 2-2

Note: NECROSIS TGLs = 3-2

Stomach Glandular Erosion Multiple, Mild
Forestomach Hypeplasia Mild
Forestomach Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 443

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Glandular

Mineralization

Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:03
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 83 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 729
DOSE: 8 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hemorrhage	Multifocal, Mild
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: HYPERPLASIA TGLs = 6-6+21,7-22,8-23,9-24,10-25

Note: HEMORRHAGE IS ON SLIDES 6 AND 24.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEPATOCLR CARC IS ON SLIDE 6.

Note: NEOVASCUZATION OF CYST IS ON SLIDE 23.

Note: CYST MULTILOC IS ON SLIDE 21.

[Cholangiocarcinoma TGLS = 5-6+21+22+24+25]

[Cyst TGLS = 5-6+21+22+24+25]

[Cytomegaly TGLS = 9-24,10-25]

[Degeneration TGLS = 9-24,10-25]

[Fibrosis TGLS = 6-6+21,7-22,8-23+23-1]

[Hyperplasia TGLS = 9-24,10-25]

[Hyperplasia TGLS = 6-6+21,7-22,8-23+23-1]

[Inflammation TGLS = 6-6+21,8-23+23-1]

[Pigmentation TGLS = 6-6+21,8-23+23-1]

[Vacuolization Cytoplasmic TGLS = 6-6+21,7-22,8-23+23-1]

Lung

Alveolar Epith

Congestion

Hyperplasia

Mild

Multifocal, Mild

Infiltration Cellular

Histiocyte, Multifocal, Mild

Mediastinum

Leukemia Mononuclear

Leukemia Mononuclear

Fat, Mediastinum

Necrosis

Multifocal, Marked

Note: NECROSIS TGLs = 12-28

Lymph Node

Bronchial

Leukemia Mononuclear

Mandibular

Leukemia Mononuclear

Mediastinal

Leukemia Mononuclear

Mesenteric

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-26+26-1

Note: LEUKEMIA MONUC TGLs = 11-3

Note: LEUKEMIA MONUC TGLs = 1-5

Mammary Gland

Duct

Cyst

Mesentery

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Cyst

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 83	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6-1+6-2		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-7		
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Carcinoma	
Note: CARCINOMA	TGLs = 13-29		

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 698

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Preputial Gland
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mediastinal
Salivary Glands
Thyroid Gland

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hyperplasia
Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Mild
Chronic, Moderate
Multiple
Multiple, Marked
Marked
Multifocal, Moderate
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Moderate
Multifocal, Mild
Marked

Note: CYST MULTILOC IS ON SLIDES 21 AND 24.

Note: HYPERPLASIA TGLs = 2-6+21,3-22,4-23,5-24

[Cytomegaly TGLS = 1-6+21+22+23+24]

[Fibrosis TGLS = 2-6+21,3-22,4-23,5-24]

[Hyperplasia TGLS = 2-21,4-23]

[Hyperplasia TGLS = 2-6+21,3-22,4-23,5-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 698

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-6+21+22,5-24]

[Pigmentation TGLS = 2-21,4-23]

[Vacuolization Cytoplasmic TGLS = 1-6+21+22+23+24]

Lung		Granuloma Infiltration Cellular Pigmentation	Multiple, Mild Histiocyte, Multifocal, Mild Cholesterol, Multifocal, Mild
Lymph Node	Mesenteric	Ectasia	Mild
	Mandibular	Hyperplasia	Mild
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Edema	Focal, Marked
Note: EDEMA	TGLs = 6-25		
Spleen		Congestion Hematopoietic Cell Proliferation	Minimal Minimal
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Stomach - Forestomach	Thyroid Gland	Trachea	

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Marked
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: NEOVASCUZATION OF CYST IS ON SLIDES 21,24, & 25.

Note: [HEPATOCLR ADEN] TGLs = 14-6+23+29

Note: [HEPATOCLR CARC] TGLs = 13-22+30

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

- [Cyst TGLS = 8-6+21,9-22,10-23,11-24,12-25]
- [Cytomegaly TGLS = 12-25,13-29,14-30]
- [Degeneration TGLS = 12-25,13-29,14-30]
- [Fibrosis TGLS = 8-6+21,9-22,10-23,11-24]
- [Hyperplasia TGLS = 8-6+21,9-22,10-23,11-24]
- [Hyperplasia TGLS = 12-25,13-29,14-30]
- [Inflammation TGLS = 8-6+21,9-22,10-23,11-24,12-25]
- [Necrosis TGLS = 8-6+21,9-22,10-23,11-24]
- [Pigmentation TGLS = 12-25,13-29,14-30]
- [Vacuolization Cytoplasmic TGLS = 8-6+21,9-22,10-23,11-24]

Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
	Pancreatic	Ectasia	Moderate
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: ECTASIA	TGLs = 6-28		
Note: LEUKEMIA MONUC	TGLs = 15-3		
Note: LEUKEMIA MONUC	TGLs = 6-28		
Mammary Gland	Duct	Cyst	
Mesentery		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	Pars Distalis	Leukemia Mononuclear	
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-26+26-1		
Spleen		Fibrosis	Focal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6-1		
Note: FIBROSIS	TGLs = 5-27		
Stomach	Glandular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 85	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 680 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstitial Cell	Adenoma Atrophy	Multiple Moderate
Note: ATROPHY	TGLs = 3-7		
Note: ADENOMA	TGLs = 2-7		
Thymus		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Pituitary Gland
Stomach - Forestomach
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Prostate
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Thymus

OBSERVATIONS

Bone Marrow
Harderian Gland
Heart
Kidney
Liver

Biliar Tract

Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hyperplasia
Inflammation
Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Hemorrhage
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Focal, Mild
Mild
Chronic, Moderate
Multiple
Multiple, Marked

Marked
Multifocal, Marked
Multifocal, Marked
Multifocal, Moderate

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked

Marked
Multifocal, Marked
Multifocal, Moderate
Marked

Note: CHOLANGIOCARC TGLs = 5-23,6-24,9-26

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 5-23,7-24,9-26
 Note: [HEPATOCLR ADEN] TGLs = 6,8-6
 Note: SUBCUTIS IMPLANTS SUCCESSFUL.
 Note: CYST MULTILOC IS ON SLIDE 6.
 Note: HEMORRHAGE IS ON SLIDES 21,22,25 AND 26.
 Note: CYST TGLs = 2-6+21+21-1,3-21,4-22
 Note: CHOLANGIOCARC TGLs = 2-6+21+21-1,4-22
 [Cyst Multilocular TGLS = 2-21,4-22]
 [Cytomegaly TGLS = 5-23,7-24,8-25,10-26]
 [Degeneration TGLS = 5-23,7-24,8-25,10-26]
 [Fibrosis TGLS = 3-6+21+21-1,4-22+22-1]
 [Hyperplasia TGLS = 3-6+21+21-1,4-22+22-1]
 [Hyperplasia TGLS = 5-23,7-24,8-25,10-26]
 [Necrosis TGLS = 2-6+21+21-1,4-22+22-1]
 [Pigmentation TGLS = 5-23,7-24,8-25,10-26]
 [Vacuolization Cytoplasmic TGLS = 3-6+21+21-1,4-22+22-1]

Lymph Node	Mandibular	Ectasia	Mild
	Mediastinal	Ectasia	Moderate
	Pancreatic	Ectasia	Marked
	Bronchial	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Mild
	Pancreatic	Hyperplasia	Moderate
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 11-7		
Note: ECTASIA	TGLs = 11-7		
Mesentery		Cholangiocarcinoma	Metastatic (Liver)
Note: CHOLANGIOCARC IS ON SLIDE 4 WITH STOMACH.			
Pancreas		Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Suppurative, Acute, Focal, Mild
Spleen		Congestion	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 86	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstitial Cell	Hematopoietic Cell Proliferation	Minimal
Note: ADENOMA	TGLs = 1-7	Leukemia Mononuclear	
		Adenoma	Multiple

PRIMARY CAUSE OF DEATH -

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	Multiple
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: CYST MULTILOC IS ON SLIDE 24.

Note: [HEPATOCLR ADEN] TGLs = 7-6+26

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 2-6+21,3-22,4-23,5-24,6-25]

[Degeneration TGLS = 5-24,6-25,7-26+26-1]

[Fibrosis TGLS = 2-6+21,3-22,4-23,5-24,6-25]

[Hyperplasia TGLS = 2-6+21,3-22,4-23,5-24,6-25]

[Hyperplasia TGLS = 2-6+21,4-23,5-24,6-25]

[Necrosis TGLS = 2-6+21,3-22,4-23,5-24,6-25]

[Vacuolization Cytoplasmic TGLS = 2-6,3-22,4-23]

Lung		Infiltration Cellular	Histiocyte, Focal, Minimal
	Fat, Mediastinum	Necrosis	Multifocal, Mild
Lymph Node	Mediastinal	Ectasia	Marked
	Mandibular	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Moderate
	Mesenteric	Hyperplasia	Mild
Pancreas		Adenoma	
Note: ADENOMA IS ON SLIDE 4 WITH THE INTESTINE.			
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
		Developmental Malformation	Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: FIBROSIS TGLs = 3-6+21,4-22,6-24,8-25+25-1

Note: CYST MULTILOC IS ON SLIDES 22 AND 25.

[Cytomegaly TGLs = 3-6+21,4-22,6-24,8-25+25-1]

[Degeneration TGLs = 3-21,4-22,6-24,8-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-6+21,4-22,6-24,8-25+25-1]

[Hyperplasia TGLS = 7-25]

[Necrosis TGLS = 3-21,4-22,6-24,8-25]

[Vacuolization Cytoplasmic TGLS = 3-6+21,4-22,6-24,8-25+25-1]

Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Ectasia	Mild
	Pancreatic	Ectasia	Moderate
	Mandibular	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Mild
	Pancreatic	Hyperplasia	Mild
	Mediastinal	Leukemia Mononuclear	
Note: ECTASIA	TGLs = 9-7		
Note: HYPERPLASIA	TGLs = 9-7		
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 1-8		
Pancreas		Adenoma	Multiple
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Moderate
Note: PIGMENT	TGLs = 11-1		
Note: ANGIECTASIS	TGLs = 11-1		
Note: ADENOMA	TGLs = 11-1		
Note: CYST	TGLs = 11-1		
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Mild
		Fibrosis	Focal, Moderate
		Leukemia Mononuclear	
Note: FIBROSIS	TGLs = 10-6		
Note: LEUKEMIA MONUC	TGLs = 10-6		
Stomach	Forestomach	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstitial Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 624

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Prostate
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Pituitary Gland
Skin
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Preputial Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Heart

Kidney
Liver

Medulla

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell

Hepatocyte

Pheochromocytoma Benign
Cardiomyopathy
Thrombosis
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Carcinoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Thrombosis
Vacuolization Cytoplasmic

Multiple
Mild

Chronic, Marked
Multiple
Multiple, Marked
Moderate
Multifocal, Marked
Multifocal, Marked

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Marked
Multifocal, Mild

Marked

Note: THROMBUS IS ON SLIDE 6.

[Cholangiocarcinoma TGLS = 5-23]

[Cyst TGLS = 3-6+21,4-22,6-24,7-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 624

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

- [Cytomegaly TGLS = 6-24,7-25,8-26]
- [Degeneration TGLS = 6-24,7-25,8-26]
- [Fibrosis TGLS = 3-6+21,4-22,5-23]
- [Hyperplasia TGLS = 3-6+21,4-22,5-23]
- [Hyperplasia TGLS = 6-24,7-25,8-26]
- [Inflammation TGLS = 3-6+21,4-22,6-24,7-25]
- [Metaplasia TGLS = 9-6+21+22+23+24]
- [Necrosis TGLS = 3-6+21,4-22,5-23]
- [Pigmentation TGLS = 6-24,7-25,8-26]
- [Vacuolization Cytoplasmic TGLS = 3-6+21,4-22,5-23]

Lung		Thrombosis	
Lymph Node	Bronchial	Congestion	Mild
	Mandibular	Congestion	Moderate
	Mediastinal	Congestion	Marked
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked

Note: ATROPHY TGLs = 1-7

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Hepatocyte

Vacuolization Cytoplasmic

Marked

Note: [HEPATOCLR ADEN] TGLs = 4-6+21+22

Note: NEOVASCUZATION OF CYST IS ON SLIDE 23.

[Cyst TGLS = 8-25,9-27]

[Cytomegaly TGLS = 7-24,8-25,9-27]

[Degeneration TGLS = 7-24,8-25,9-27]

[Fibrosis TGLS = 4-6+21,5-22,6-23]

[Hyperplasia TGLS = 7-24,8-25,9-27]

[Hyperplasia TGLS = 4-6+21,5-22,6-23]

[Inflammation TGLS = 4-6+21,6-23,5-22]

[Necrosis TGLS = 4-6+21,5-22,7-24,8-25,9-27]

[Pigmentation TGLS = 4-6+21,6-23]

[Vacuolization Cytoplasmic TGLS = 4-6+21,5-22,6-23]

Lung

Congestion

Moderate

Infiltration Cellular

Histiocyte, Multifocal, Moderate

Leukemia Mononuclear

Note: INFILTRAT CELL TGLs = 10-2+2-1

Note: CONGESTION TGLs = 10-2+2-1

Note: LEUKEMIA MONUC TGLs = 10-2+2-1

Lymph Node

Mediastinal

Congestion

Mild

Mediastinal

Ectasia

Moderate

Pancreatic

Ectasia

Marked

Mandibular

Leukemia Mononuclear

Mediastinal

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Note: ECTASIA TGLs = 2-26

Note: LEUKEMIA MONUC TGLs = 2-26

Pancreas

Atrophy

Multifocal, Minimal

Hyperplasia

Focal, Mild

Note: FOCAL HYPERPLASIA IS ON SLIDE 26.

Pituitary Gland

Pars Distalis

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 90	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 694 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen		Congestion Hematopoietic Cell Proliferation Leukemia Mononuclear	Moderate Minimal
Note: CONGESTION TGLs = 3-6 Note: LEUKEMIA MONUC TGLs = 3-6			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 575

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Blood		Polychromasia	Moderate
Bone Marrow		Hyperplasia	Mild
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 11-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLs = 1-6+21,2-22,3-23,4-24,13-28]
 [Degeneration TGLs = 1-6+21,2-22,3-23,4-24,13-28]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 575 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 1-6+21,2-22,3-23,4-24,13-28]
 [Hyperplasia TGLS = 1-21,3-23,4-24,13-28]
 [Necrosis TGLS = 1-21,3-23,4-24,13-28]
 [Vacuolization Cytoplasmic TGLS = 2-22,4-24,12-25]

Lung		Granuloma	Multiple, Minimal
Mesentery		Mesothelioma Malignant Pigmentation	Hemosiderin, Multifocal, Marked
Note: PIGMENT IS ON SLIDES 4 AND 27.			
Note: MESOTHELIO MAL TGLs = 8-27+4+5+6+7+8			
Pancreas		Hyperplasia	Multifocal, Mild
Preputial Gland	Bilateral Duct	Adenoma Cyst	
Note: CYST TGLs = 5-8			
Note: [ADENOMA] TGLs = 5-8			
Skeletal Muscle		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 7-26			
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 10-6			
Testes	Interstitial Cell	Adenoma Mesothelioma Malignant	Multiple
Note: ADENOMA TGLs = 9-7			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 707

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Pancreas	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Thymus	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone		Fibrous Osteodystrophy	Moderate
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 9-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hemorrhage	Multifocal, Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
		Neovascularization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

DOSE: 8 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 707

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Kupffer Cell
Hepatocyte

Pigmentation
Vacuolization Cytoplasmic

Multifocal, Mild
Marked

Note: HEMORRHAGE IS ON SLIDE 23.

Note: [HEPATOCLR ADEN] TGLs = 7-21

Note: NEOVASCUZATION OF CYST IS ON SLIDES 23, 6, and 24.

[Cyst TGLS = 7-25]

[Cytomegaly TGLS = 7-25]

[Degeneration TGLS = 3-6+21,4-22,7-25,8-26]

[Fibrosis TGLS = 3-6+21,5-23+23-1,6-24]

[Hyperplasia TGLS = 3-6+21,5-23+23-1,6-24]

[Hyperplasia TGLS = 3-6+21,5-23+23-1,6-24]

[Necrosis TGLS = 3-6+21,5-23+23-1,6-24]

[Pigmentation TGLS = 8-27]

[Vacuolization Cytoplasmic TGLS = 3-6+21,5-23+23-1,6-24]

Lung Alveolar Epith
Lymph Node Pancreatic
Pancreatic

Hyperplasia
Ectasia
Hyperplasia

Focal, Moderate
Marked
Moderate

Note: HYPERPLASIA TGLs = 2-26

Note: ECTASIA TGLs = 2-26

Mammary Gland Duct
Parathyroid Gland
Spleen

Cyst
Hyperplasia
Congestion
Hematopoietic Cell Proliferation

Mild
Mild
Mild

Stomach Forestomach
Forestomach
Forestomach
Forestomach
Glandular
Testes Interstit Cell

Edema
Hyperplasia
Inflammation
Ulcer
Ulcer
Adenoma

Moderate
Mild
Subacute, Moderate
Marked
Moderate
Multiple

Note: ADENOMA TGLs = 1-7

Thyroid Gland C Cell

Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 707

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Mammary Gland
Pituitary Gland
Skin
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Preputial Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pancreas
Prostate
Stomach - Glandular

MISSING

Thymus

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Biliar Tract

Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hyperplasia
Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Carcinoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Moderate
Chronic, Moderate
Multiple
Multiple, Marked

Marked
Multifocal, Marked
Multifocal, Marked

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Marked
Multifocal, Mild
Marked

Note: CYST MULTILOC IS ON SLIDE 21.
[Cytomegaly TGLS = 11-28]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 93	TRT#: 3	SEX: Male	DAY ON TEST: 695
	DOSE: 8 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 6-6+21,7-22,9-24,10-25]
[Fibrosis TGLS = 6-6+21,7-22,8-23,9-24,10-25]
[Hyperplasia TGLS = 6-6+21,7-22,8-23,9-24]
[Hyperplasia TGLS = 6-6+21,7-22,8-23,9-24]
[Necrosis TGLS = 6-6+21,7-22,8-23,9-24,10-25]
[Pigmentation TGLS = 11-28]
[Vacuolization Cytoplasmic TGLS = 6-6+21,7-22,8-23,9-24,10-25]

Lymph Node	Mandibular Pancreatic	Ectasia Ectasia	Moderate Moderate
Note: ECTASIA	TGLs = 1-5		
Note: ECTASIA	TGLs = 4-27		
Mesentery	Fat	Necrosis	Multifocal, Marked
Note: NECROSIS	TGLs = 3-26		
Spleen		Congestion Fibrosis Hematopoietic Cell Proliferation	Mild Focal, Moderate Mild
Note: FIBROSIS	TGLs = 5-6		
Testes	Interstitial Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 591

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 5-6+21,6-22,7-23,8-24,9-25]

[Degeneration TGLS = 5-6+21,6-22,7-23,8-24,9-25]

[Fibrosis TGLS = 5-6+21,6-22,7-23,8-24,9-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 94	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 591 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 5-6+21,6-22,7-23]
 [Necrosis TGLS = 5-6+21,7-23]
 [Vacuolization Cytoplasmic TGLS = 5-6+21,6-22,7-23,8-24,9-25]

Lung		Granuloma Leukemia Mononuclear	Multiple, Minimal
Lymph Node	Mandibular Mediastinal Pancreatic Mandibular Mediastinal Mesenteric Pancreatic	Ectasia Ectasia Ectasia Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	Mild Mild Moderate
	Note: ECTASIA TGLs = 3-27 Note: LEUKEMIA MONUC TGLs = 3-27		
Pancreas		Atrophy Hyperplasia	Multifocal, Mild Focal, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Fibroma	
	Note: [FIBROMA] TGLs = 1-26		
Spleen		Leukemia Mononuclear	
	Note: LEUKEMIA MONUC TGLs = 4-6		
Testes	Interstit Cell	Adenoma	Multiple
	Note: ADENOMA TGLs = 2-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 609

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Bronchial
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	Multiple
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: NEOPLASM ON SLIDE 23 IS GROWING IN SUBCUT

Note: [HEPATOCLR ADEN] TGLs = 7,8,11-21+22+25

Note: TISSUE IN THE IMPLANTED ANIMALS.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

DOSE: 8 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 609

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

- [Cytomegaly TGLS = 7-6+21,8-22,9-23,10-24,11-25]
- [Degeneration TGLS = 7-6+21,8-22,9-23,10-24,11-25]
- [Fibrosis TGLS = 7-6+21,8-22,9-23,10-24,11-25]
- [Hyperplasia TGLS = 12-6,7-21,8-22,9-23,10-24]
- [Necrosis TGLS = 7-6+21,9-23]
- [Vacuolization Cytoplasmic TGLS = 7-6+21,8-22,9-23,10-24,11-25]

Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
	Mediastinal	Ectasia	Mild
	Mesenteric	Ectasia	Mild
	Pancreatic	Ectasia	Marked
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-29		
Note: ECTASIA	TGLs = 5-29		
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 2-26		
Prostate		Inflammation	Subacute, Marked
Spleen		Leukemia Mononuclear	
		Sarcoma	
Note: [SARCOMA]	TGLs = 4-28		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Mammary Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial	Lymph Node - Mandibular	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
		Neovascularization	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Moderate
		Thrombosis	
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: NEOVASCUZATION OF CYST IS ON SLIDES 23 AND 6.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 617

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [HEPATOCLR ADEN] TGLs = 8-25

Note: THROMBUS IS ON SLIDE 24.

[Cytomegaly TGLs = 6-23,7-24,8-25]

[Degeneration TGLs = 6-23,7-24,8-25]

[Fibrosis TGLs = 4-6+6-1+21,5-22]

[Hyperplasia TGLs = 4-6+6-1+21,5-22,7-24,8-25]

[Hyperplasia TGLs = 4-6+6-1+21,5-22,6-23,7-24]

[Necrosis TGLs = 4-6+21,5-22,7-24,8-25]

[Pigmentation TGLs = 4-6+6-1+21,5-22,6-23,7-24]

[Vacuolization Cytoplasmic TGLs = 4-6+6-1+21,5-22]

Lymph Node
Mediastinal
Pancreatic
Pancreatic

Ectasia
Ectasia
Hyperplasia

Mild
Moderate
Mild

Note: HYPERPLASIA TGLs = 3-26

Note: ECTASIA TGLs = 3-26

Nose
Pancreas
Spleen
Note: HEMA CELL PROL TGLs = 2-6-1

Fungus
Inflammation
Hyperplasia
Hematopoietic Cell Proliferation

Moderate
Suppurative, Acute, Mild
Multifocal, Mild
Moderate

Testes
Note: ADENOMA TGLs = 1-7

Interstitial Cell

Adenoma

Multiple

Thyroid Gland
C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
	Medulla	Hyperplasia	Focal, Mild
Brain		Compression	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 4-6		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: TGL 5 IS ON SLIDE I.

Note: TGL 6 IS ON SLIDE II.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 421

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 9 IS ON SLIDE V.

Note: TGL 8 IS ON SLIDE IV.

Note: TGL 7 IS ON SLIDE III.

[Cytomegaly TGLS = 5,6,7,8,9]

[Degeneration TGLS = 5,6,7,8,9]

[Fibrosis TGLS = 5,6,7,8,9]

[Hyperplasia TGLS = 7,8,9]

[Necrosis TGLS = 7,8,9]

[Vacuolization Cytoplasmic TGLS = 5,6,7,8,9]

Mammary Gland

Duct

Cyst

Note: CYST TGLs = 1-8

Pancreas

Hyperplasia

Multifocal, Mild

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Marked

Pars Distalis

Pigmentation

Hemosiderin, Mild

Note: PIGMENT TGLs = 11-1

[Angiectasis TGLS = 11-1]

[Pigmentation TGLS = 11-1]

Prostate

Inflammation

Suppurative, Acute, Marked

Note: INFLAMMATION TGLs = 2

Note: TGL 2 IS ON SLIDE VI.

Seminal Vesicle

Inflammation

Suppurative, Acute, Marked

Note: TGL 3 IS ON SLIDE VII.

[Inflammation TGLS = 3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 98	TRT#: 3	SEX: Male	DAY ON TEST: 52
	DOSE: 8 MG/KG	DISP: Dosing Accident	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Liver	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial	Lymph Node - Mediastinal
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OBSERVATIONS

Lung	Congestion	Moderate
	Foreign Body	Moderate

Note: FOREIGN BODY TGLs = 1-4
Note: CONGESTION TGLs = 1-4

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 666

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Mammary Gland	Nose	Preputial Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Mediastinal	Parathyroid Gland	Thymus
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OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: ADENOMA IS ON 24+25

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 666

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

- [Cyst TGLS = 5-6+21,6-22,7-23,8-24,10-28]
- [Cytomegaly TGLS = 9-25,10-28,11-29]
- [Degeneration TGLS = 9-25,10-28,11-29]
- [Fibrosis TGLS = 5-6+21,6-22,7-23,8-24]
- [Hyperplasia TGLS = 5-6+21,6-22,7-23,8-24]
- [Hyperplasia TGLS = 9-25,10-28,11-29]
- [Inflammation TGLS = 5-6+21,6-22,7-23,8-24,10-28]
- [Metaplasia TGLS = 11-29]
- [Necrosis TGLS = 5-6+21,6-22,7-23,8-24]
- [Pigmentation TGLS = 9-25,10-28,11-29]
- [Vacuolization Cytoplasmic TGLS = 5-6+21,6-22,7-23,8-24]

Lung

Fungus
Inflammation
Leukemia Mononuclear

Moderate
Granulomatous, Focal, Moderate

Note: FUNGUS TGLs = 13-2-1
Note: INFLAMMATION TGLs = 13-2-1

Lymph Node

Mandibular
Pancreatic
Mandibular
Mesenteric
Pancreatic

Ectasia
Ectasia
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Mild
Marked

Note: ECTASIA TGLs = 2-26
Note: LEUKEMIA MONUC TGLs = 2-26

Pancreas

Pituitary Gland

Pars Distalis
Pars Distalis

Atrophy
Adenoma
Leukemia Mononuclear

Focal, Mild

Prostate

Spleen

Inflammation
Fibrosis
Leukemia Mononuclear

Subacute, Mild
Focal, Moderate

Note: FIBROSIS TGLs = 4-27
Note: LEUKEMIA MONUC TGLs = 3-6-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 99	TRT#: 3 DOSE: 8 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 666 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes Note: [HYPERPLASIA] TGLs = 1-7	Interstitial Cell	Hyperplasia	Mild
Zymbal's Gland Note: INFLAMMATION TGLs = 14-30+9-2 Note: CARCINOMA TGLs = 14-30+9-2		Carcinoma Inflammation	Subacute, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 655

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC TGLs = 6-5			
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:03
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 655

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 10-6+21,12-23

[Cyst TGLS = 8-21+22+23+24+25+6]

[Cytomegaly TGLS = 13-24,14-25]

[Degeneration TGLS = 13-24,14-25]

[Fibrosis TGLS = 10-6+21,11-22,12-23]

[Hyperplasia TGLS = 10-6+21,11-22,12-23]

[Hyperplasia TGLS = 13-24,14-25]

[Inflammation TGLS = 10-6+21,12-23]

[Necrosis TGLS = 10-6+21,11-22,12-23]

[Pigmentation TGLS = 13-24,14-25]

[Vacuolization Cytoplasmic TGLS = 10-6+21,11-22,12-23]

Lung		Leukemia Mononuclear
Lymph Node	Bronchial	Leukemia Mononuclear
	Mandibular	Leukemia Mononuclear
	Mediastinal	Leukemia Mononuclear
	Mesenteric	Leukemia Mononuclear
	Renal	Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-27,9-28

Note: LEUKEMIA MONUC TGLs = 16-3

Note: LEUKEMIA MONUC TGLs = 15-29

Mammary Gland	Duct	Cyst
Note: CYST	TGLs = 1-8	
Mesentery		Leukemia Mononuclear
Pancreas		Leukemia Mononuclear
Pituitary Gland	Pars Distalis	Adenoma
	Pars Distalis	Leukemia Mononuclear
	Pars Distalis	Pigmentation
Spleen		Leukemia Mononuclear

Hemosiderin, Mild

Note: LEUKEMIA MONUC TGLs = 4-6-1,5-26

Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 655

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-7

Note: ATROPHY TGLs = 3-7

Thymus

Leukemia Mononuclear

Thyroid Gland

Follicle

Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 703

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Gland - Medulla	Intestine Large - Rectum
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OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: CYTOMEGALY TGLs = 7-6

Note: HEPATOCLR CARC IS ON SLIDE 24.

[Cytomegaly TGLs = 8-21,10-23,11-24]

[Degeneration TGLs = 8-21,10-23,11-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 703

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 8-21,10-23,11-24]

[Hyperplasia TGLS = 8-21,10-23,11-24]

[Necrosis TGLS = 8-21,10-23,11-24]

[Vacuolization Cytoplasmic TGLS = 8-21,9-22,10-24]

Lung	Alveolar Epith	Granuloma Hyperplasia	Multiple, Mild Focal, Moderate
Note: GRANULOMA TGLs = 13-2			
Note: HYPERPLASIA TGLs = 12-2			
Lymph Node	Pancreatic	Ectasia	Mild
Note: ECTASIA TGLs = 5-27			
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 2-26			
Pituitary Gland	Pars Distalis	Cyst	
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA] TGLs = 1-25			
Spleen		Congestion Hematopoietic Cell Proliferation	Mild Mild
Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
Note: ATROPHY TGLs = 3-7			
Note: ADENOMA TGLs = 4-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:03

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Prostate
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lung
Parathyroid Gland
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pituitary Gland
Skin
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Preputial Gland
Stomach - Forestomach
Trachea

MISSING

Lymph Node - Bronchial

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Medulla

Biliar Tract

Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Pheochromocytoma Benign
Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hepatocellular Adenoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Moderate
Multiple
Multiple, Marked

Marked
Multifocal, Moderate
Multifocal, Marked
Multiple, Mild

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Multifocal, Mild
Marked

Note: CYST MULTILOC IS ON SLIDE 23.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 102	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 3-21,4-22,5-23,6-24]
[Degeneration TGLS = 3-21,4-22,5-23,6-24]
[Fibrosis TGLS = 3-21,4-22,5-23,6-24]
[Hyperplasia TGLS = 3-21,4-22,5-23,6-24]
[Necrosis TGLS = 3-21,4-22,5-23,6-24]
[Vacuolization Cytoplasmic TGLS = 3-21,4-22,5-23,6-24,7-25]

Nose	Nasopharyn Dct	Cyst	
Pancreas		Hyperplasia	Focal, Moderate
Spleen		Congestion	Mild
		Fibrosis	Focal, Moderate
		Hematopoietic Cell Proliferation	Mild
Note: FIBROSIS TGLs = 2-6			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: NEOVASCULARIZATION OF CYST IS ON SLIDE 23.

Note: NEOVASCUZATION OF CYST IS ON SLIDES 21 AND 23.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST MULTILOC IS ON SLIDE 6.

[Cytomegaly TGLS = 2-21+21-1,4-23]

[Degeneration TGLS = 2-21+21-1,4-23]

[Fibrosis TGLS = 2-21+21-1,4-23]

[Hyperplasia TGLS = 2-21+21-1,4-23]

[Necrosis TGLS = 2-21+21-1,4-23]

[Vacuolization Cytoplasmic TGLS = 3-22,5-24+24-1]

Lymph Node Pancreatic

Ectasia

Marked

Note: ECTASIA TGLs = 6-25

Pancreas

Adenoma

Hyperplasia

Multifocal, Moderate

Fibrosarcoma

Skin Subcut Tiss

Note: FIBROSARC TGLs = 1-26

Spleen

Hematopoietic Cell Proliferation

Minimal

Testes

Interstit Cell

Adenoma

Multiple

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA TGLs = 7-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Preputial Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 6-5.1		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
Note: HYPERPLASIA	TGLs = 1-6+21,2-22,3-23+23-1,4-24		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 5-25,2-22

Note: INFLAMMATION TGLs = 1-6+21,2-22,3-23+23-1,4-24

Note: NEOVASCULARIZATION OF CYST IS ON SLIDE 23.

Note: CYST, MULTILOC IS ON SLIDE 25.

Note: CHOLANGIOCARC TGLs = 1-6+21,2-22,3-23+23-1,4-24

[Fibrosis TGLS = 1-6+21,2-22,3-23+23-1,4-24]

[Necrosis TGLS = 1-6+21,2-22,3-23+23-1,4-24]

Mammary Gland

Duct

Cyst

Note: CYST TGLs = 7-8

Pancreas

Atrophy

Multifocal, Moderate

Cyst Multilocular

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Marked

Pars Distalis

Pigmentation

Hemosiderin, Mild

Note: ADENOMA TGLs = 8-1

Note: PIGMENT TGLs = 8-1

Note: ANGIECTASIS TGLs = 8-1

Prostate

Inflammation

Subacute, Moderate

Spleen

Congestion

Mild

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 639

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Nephropathy	Chronic, Moderate
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
		Developmental Malformation	
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 639

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 8-21,10-23

Note: CHOLANGIOCARC TGLs = 8-21,10-23

Note: CYST TGLs = 8-21,10-23

Note: FIBROSIS TGLs = 8-21,10-23

[Fibrosis TGLS = 8-21,10-23]

[Hyperplasia TGLS = 12-25]

[Hyperplasia TGLS = 7-6+21+22+23+24+25+28]

[Necrosis TGLS = 7-6+21+22+23+24+25+28]

[Pigmentation TGLS = 13-28]

Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Ectasia	Moderate
	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

Note: ECTASIA TGLs = 3-26

Note: LEUKEMIA MONUC TGLs = 3-26

Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Prostate		Inflammation	Subacute, Mild
Spleen		Fibrosis	Focal, Moderate
		Leukemia Mononuclear	

Note: FIBROSIS TGLs = 5-27

Note: LEUKEMIA MONUC TGLs = 4-6+6-1+27

Testes	Interstit Cell	Adenoma	Multiple
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Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 556

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow		Hyperplasia	Moderate
Epididymis		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 4-7			
Heart		Cardiomyopathy	Moderate
Note: CONGESTION TGLs = 12-2			
Note: CARDIOMYOPATHY TGLs = 12-2			
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
		Thrombosis	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 106	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 556 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: THROMBUS IS ON SLIDES 21, 22, AND 25.			
Note: CYST MULTILOC IS ON SLIDE 23.			
[Cytomegaly TGLS = 7-21,8-22,9-23,10-24,11-25]			
[Degeneration TGLS = 7-21,8-22,9-23,10-24,11-25]			
[Fibrosis TGLS = 7-21,8-22,9-23,10-24,11-25]			
[Hyperplasia TGLS = 7-21,8-22,9-23,10-24,11-25]			
[Necrosis TGLS = 7-21,8-22,9-23,10-24,11-25]			
[Vacuolization Cytoplasmic TGLS = 7-21,10-24,11-25]			
Lymph Node	Mandibular Mediastinal	Ectasia Pigmentation Cyst	Mild Hemosiderin, Marked
Mammary Gland	Duct		
Note: CYST TGLs = 1-8			
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 3-26			
Pancreas		Mesothelioma Malignant Pigmentation	Hemosiderin, Moderate
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Marked
Note: ADENOMA TGLs = 13-1			
Note: ANGIECTASIS TGLs = 13-1			
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Minimal
	Capsule	Fibrosis	Multifocal, Moderate
		Hematopoietic Cell Proliferation	Moderate
		Mesothelioma Malignant	
	Capsule	Pigmentation	Hemosiderin, Mild
Note: HEMA CELL PROL TGLs = 5-2			
Note: FIBROSIS TGLs = 5-2			
Note: CONGESTION TGLs = 5-2			
Stomach	Forestomach	Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 556

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Hyperplasia

Mild

Mesothelioma Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
		Neovascularization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 107	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
	Kupffer Cell	Pigmentation Thrombosis	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: CYST, MULTOLOC IS ON SLIDE 25. Note: NEOVASCULARIZATION OF CYSTS IS ON SLIDE 23. Note: CHOLANGIOCARC TGLs = 2-6+21,3-22,4-23,5-24 Note: HEPATOCLR CARC TGLs = 6-25 Note: THROMBUS IS ON SLIDE 22. Note: HYPERPLASIA TGLs = 2-6+21,3-23,4-23,5-24 [Fibrosis TGLs = 2-6+21,3-22,4-23,5-24] [Vacuolization Cytoplasmic TGLs = 2-6+21,3-23,4-23,5-24]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-5 Note: LEUKEMIA MONO TGLs = 7-5			
Mammary Gland	Duct	Cyst	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Leukemia Mononuclear Pigmentation	Mild Hemosiderin, Mild
Prostate		Inflammation	Subacute, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-6+6-1 Note: LEUKEMIA MONO TGLs = 8-6+6-1			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Skin	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6		
Note: LEUKEMIA MONUC	TGLs = 7-6		
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST, MULTOLOC IS ON SLIDE 23 AND 24.

Note: HEMORRHAGE IS ON SLIDE 23.

Note: FIBROSIS TGLs = 1-6+21+21-1,2-22,3-23,4-24

Note: HYPERPLASIA TGLs = 1-6+21+21-1,2-22,3-23,4-24

[Degeneration TGLS = 1-6+21+21-1,2-22,3-23,4-24]

[Necrosis TGLS = 1-6+21+21-1,2-22,3-23,4-24]

[Vacuolization Cytoplasmic TGLS = 1-6+21+21-1,2-22,3-23,4-24]

Lung		Leukemia Mononuclear
Lymph Node	Bronchial	Leukemia Mononuclear
	Mandibular	Leukemia Mononuclear
	Mediastinal	Leukemia Mononuclear
	Mesenteric	Leukemia Mononuclear
	Pancreatic	Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9-5

Note: LEUKEMIA MONUC TGLs = 10-3

Note: LEUKEMIA MONUC TGLs = 8-25

Mammary Gland	Duct	Cyst	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Prostate		Inflammation	Subacute, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6-1+6-2		
Stomach	Forestomach	Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple

Note: ADENOMA TGLs = 6-7.1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 725

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Salivary Glands	Skin
Thymus	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: NEOVASCULARIZATION IS ON SLIDE 21.

Note: CYST TGLs = 2-21,3-21,5-23

[Cytomegaly TGLs = 4-22,6-24,7-25]

[Degeneration TGLs = 2-21,3-21,5-23]

[Fibrosis TGLs = 2-21,3-21,5-23]

[Hyperplasia TGLs = 2-21,3-21,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 109 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 725
DOSE: 4 MG/KG **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Organ	Accountable Site	Status	Notes
[Necrosis TGLS = 2-21,3-21,5-23]			
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
Note: NECROSIS	TGLs = 8-26		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 10-1		
Note: ADENOMA	TGLs = 10-1		
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal
Stomach	Glandular	Erosion	Multiple, Moderate
	Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Subacute, Moderate
	Forestomach	Perforation	
Note: PERFORATION	TGLs = 9-4-1		
Testes	Interstitial Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA	TGLs = 1-7		
Note: ATROPHY	TGLs = 11-7		
Thyroid Gland	C Cell	Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 627

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-61		
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 110	TRT#: 5	SEX: Male	DAY ON TEST: 627
	DOSE: 4 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

- [Cyst TGLS = 7-21,10-23]
- [Cytomegaly TGLS = 10-23,11-24,12-25]
- [Degeneration TGLS = 10-23,11-24,12-25]
- [Fibrosis TGLS = 7-21,8-28,9-22]
- [Hyperplasia TGLS = 10-23,11-24,12-25]
- [Hyperplasia TGLS = 7-21,8-28,9-22]
- [Inflammation TGLS = 7-21,10-23]
- [Necrosis TGLS = 7-21,8-28,9-22]
- [Pigmentation TGLS = 10-23,11-24,12-25]
- [Vacuolization Cytoplasmic TGLS = 7-21,8-28,9-22]

Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-27		
Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
Note: FIBROSIS	TGLs = 4-26.1		
Note: LEUKEMIA MONUC	TGLs = 3-6-1		
Stomach	Glandular	Inflammation	Subacute, Moderate
	Glandular	Ulcer	Marked
Note: INFLAMMATION	TGLs = 5-4		
Note: ULCER	TGLs = 5-4		
Testes	Interstit Cell	Adenoma	Multiple
		Mesothelioma Malignant	
Note: ADENOMA	TGLs = 2-7		
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 2-6			
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: NEOVASCUZATION OF CYST IS ON SLIDE 23.

Note: CYST MULTILOC IS ON SLIDE 24.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 111	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 3-21,5-22,6-23]
[Degeneration TGLS = 3-21,5-22,6-23]
[Fibrosis TGLS = 3-21,5-22,6-23]
[Hyperplasia TGLS = 3-21,5-22,6-23]
[Necrosis TGLS = 3-21,5-22,6-23]
[Vacuolization Cytoplasmic TGLS = 4-6+21,5-22,7-23,8-24,9-25]

Lymph Node	Mediastinal	Ectasia	Moderate
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas		Adenoma	
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 254

DOSE: 4 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Eye
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pharynx	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Intestine Large - Rectum	Lymph Node - Bronchial
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OBSERVATIONS

Heart	Cardiomyopathy	Minimal
Liver	Cholangiocarcinoma	Multiple
	Fibrosis	Multifocal, Moderate
	Hyperplasia	Multifocal, Moderate
	Inflammation	Chronic, Multifocal, Moderate
	Metaplasia	Moderate
	Pigmentation	Multifocal, Mild

Note: TGL 2,3, AND 4 ARE ON SLIDES I AND II.

Note: CHOLANGIOCARC TGLs = 2,3,4

Note: HYPERPLASIA TGLs = 2,3,4

Note: FIBROSIS TGLs = 2,3,4

[Fibrosis TGLS = 2,3,4]

Lung	Congestion	Moderate
	Foreign Body	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 688

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 113 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 688
DOSE: 4 MG/KG **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Cytomegaly TGLS = 4-21,5-22,6-23,7-24,8-25]		
	[Degeneration TGLS = 4-21,5-26,6-23,7-24,8-25]		
	[Fibrosis TGLS = 4-21,5-22,6-23,7-24,8-25]		
	[Hyperplasia TGLS = 4-21,5-22,6-23,8-25]		
	[Necrosis TGLS = 4-21,5-22,6-23,8-25]		
	[Vacuolization Cytoplasmic TGLS = 4-21,5-22,6-23,7-24,8-25]		
Lymph Node	Mandibular	Ectasia	Marked
	Mesenteric	Ectasia	Mild
	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pancreas		Inflammation	Chronic, Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
Testes	Interstit Cell	Adenoma	Multiple
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 1-7		
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: NEOVASCULARIZATION OF CYST IS ON SLIDE 23.

Note: [HEPATOCLR ADEN] TGLs = 2-22+24

Note: THROMBUS IS ON SLIDE 23 and 24.

[Cytomegaly TGLs = 1-6+21,3-23,4-24,5-25]

[Degeneration TGLs = 1-6+21,3-23,4-24,5-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 1-6+21,3-23,4-24,5-25]

[Hyperplasia TGLS = 1-6+21,3-23,4-24,5-25]

[Necrosis TGLS = 1-6+21,3-23,4-24,5-25]

[Vacuolization Cytoplasmic TGLS = 1-6+21,2-22,3-23,4-24,5-25]

Pancreas

Atrophy

Focal, Mild

Inflammation

Chronic, Focal, Mild

Keratoacanthoma

Skin

Note: KERATOACANTHOMA TGLs = 7-26

Spleen

Congestion

Mild

Hematopoietic Cell Proliferation

Mild

Adenoma

Multiple

Testes

Note: ADENOMA TGLs = 6-7

Interstit Cell

Thyroid Gland

Follicle

Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 707

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Salivary Glands	Skin
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	Multiple
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 17-7		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: NEOVASCUZATION OF CYST IS ON SLIDES 23 AND 24.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 115

TRT#: 5
DOSE: 4 MG/KG

SEX: Male
DISP: Moribund

DAY ON TEST: 707
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 8-21,10-23,12-29]
[Degeneration TGLS = 11-24,12-29,13-25]
[Fibrosis TGLS = 8-21,10-23,12-29]
[Hyperplasia TGLS = 8-21,10-23,12-29]
[Hyperplasia TGLS = 8-21,10-23,12-29]
[Necrosis TGLS = 8-21,10-23,12-29]
[Pigmentation TGLS = 14-5+21+22+23+24+25+29]
[Vacuolization Cytoplasmic TGLS = 8-21,9-22,10-23]

Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	Mediastinum	Leukemia Mononuclear Leukemia Mononuclear	
	Fat, Mediastinum	Necrosis	Multifocal, Mild
Note: ALV BRON CARC	TGLs = 15-30+32,16-4+31		
Lymph Node	Mandibular	Ectasia	Mild
	Pancreatic	Ectasia	Moderate
	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-27		
Note: LEUKEMIA MONUC	TGLs = 18-31		
Note: ECTASIA	TGLs = 6-27		
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 1-10		
Nose		Fungus Inflammation	Mild Suppurative, Acute, Mild
Pancreas		Adenoma Hyperplasia	Focal, Mild
Note: ADENOMA	TGLs = 7-28		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 707

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Leukemia Mononuclear	
Note: ANGIECTASIS	TGLs = 19-1		
Note: ADENOMA	TGLs = 19-1		
Note: LEUKEMIA MONUC	TGLs = 19-1		
Preputial Gland		Adenoma	
Note: [ADENOMA]	TGLs = 2-26		
Prostate		Inflammation	Subacute, Moderate
		Leukemia Mononuclear	
Seminal Vesicle		Inflammation	Subacute, Moderate
Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2-1		
Note: HEMA CELL PROL	TGLs = 5-2-1		
Stomach	Forestomach	Hyperkeratosis	Marked
	Forestomach	Hyperplasia	Marked
	Forestomach	Inflammation	Subacute, Moderate
	Forestomach	Ulcer	Multiple, Marked
Note: HYPERPLASIA	TGLs = 21-6-1		
Note: HYPERKERATOSIS	TGLs = 21-6-1		
Note: INFLAMMATION	TGLs = 21-6-1		
Note: ULCER	TGLs = 21-6-1		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 4-9		
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 70

DOSE: 4 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Nose
Preputial Gland
Spleen
Thymus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

OBSERVATIONS

Kidney
Lung

Nephropathy
Foreign Body

Chronic, Minimal
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 633

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Salivary Glands	Skin
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland Note: [PHEOCHROM BGN] TGLs = 4-28	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney Note: NEPHROPATHY TGLs = 5-5.1		Nephropathy	Chronic, Marked
Liver	Biliar Tract	Cholangiocarcinoma	Multiple
	Hepatocyte	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Biliar Tract	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Hepatocyte	Hyperplasia	Multifocal, Marked
	Biliar Tract	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Hepatocyte	Metaplasia	Marked
	Kupffer Cell	Necrosis	Multifocal, Mild
	Hepatocyte	Pigmentation	Multifocal, Mild
		Vacuolization Cytoplasmic	Marked
Note: VACUOLIZ CYTO TGLs = 11-6+21+22+24+25			
Note: HYPERPLASIA TGLs = 6-6+21,8-23			
[Degeneration TGLs = 6-6+21,7-22,8-23,9-24,10-25]			
[Fibrosis TGLs = 6-6+21,8-23]			
[Hyperplasia TGLs = 6-6+21,8-23]			
[Hyperplasia TGLs = 6-6+21,8-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 633

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLs = 6-6+21,8-23]

Mammary Gland

Duct

Cyst

Note: CYST TGLs = 2-8

Nose

Foreign Body

Mild

Fungus

Moderate

Inflammation

Suppurative, Acute, Moderate

Hyperplasia

Focal, Mild

Pancreas

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Marked

Pars Distalis

Pigmentation

Hemosiderin, Mild

Note: PIGMENT TGLs = 13-1

Note: ANGIECTASIS TGLs = 13-1

Note: ADENOMA TGLs = 13-1

Preputial Gland

Adenoma

Inflammation

Subacute, Focal, Marked

Note: INFLAMMATION TGLs = 1-26-1

Note: [ADENOMA] TGLs = 1-26

Prostate

Inflammation

Subacute, Marked

Seminal Vesicle

Inflammation

Subacute, Marked

Note: INFLAMMATION TGLs = 3-27

Spleen

Congestion

Mild

Stomach

Forestomach

Hyperplasia

Marked

Forestomach

Inflammation

Subacute, Moderate

Forestomach

Perforation

Marked

Note: PERFORATION TGLs = 12-4

Testes

Interstit Cell

Hyperplasia

Mild

Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 688

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Preputial Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Hyperplasia	Focal, Mild
Bone		Fibrous Osteodystrophy	Mild
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 4-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hematopoietic Cell Proliferation	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: HEMA CELL PROL IS ON SLIDE 6.
 [Cytomegaly TGLS = 12-21+22]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 118 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 688
DOSE: 4 MG/KG **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 8-22]
 [Fibrosis TGLS = 7-21,9-23]
 [Hyperplasia TGLS = 7-21,9-23]
 [Hyperplasia TGLS = 7-21,9-23]
 [Necrosis TGLS = 7-21,9-23]
 [Pigmentation TGLS = 10-24,11-25]
 [Vacuolization Cytoplasmic TGLS = 7-21,9-23]

Lung		Granuloma Infiltration Cellular Pigmentation Ectasia	Multiple, Mild Histiocyte, Focal, Mild Cholesterol, Focal, Mild Moderate
Lymph Node	Pancreatic		
Note: ECTASIA	TGLs = 3-26		
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 1-8		
Pancreas		Adenoma Hyperplasia	Multifocal, Mild Moderate
Note: ADENOMA	TGLs = 6-27		
Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 13-3		
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Cyst	Marked
Note: ANGIECTASIS	TGLs = 14-1		
Note: ADENOMA	TGLs = 14-1		
Prostate		Inflammation	Subacute, Moderate
Spleen		Hematopoietic Cell Proliferation	Marked
Stomach	Glandular	Mineralization	Multifocal, Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-7		
Urinary Bladder	Transit Epithe	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NEOVASCUZATION OF CYST IS ON SLIDE 23.

Note: CHOLANGIOCARC TGLs = 3-21,5-23

Note: NEOPLASTIC NOD TGLs = 4-22

[Degeneration TGLS = 3-21,5-23]

[Fibrosis TGLS = 3-21,5-23]

[Metaplasia TGLS = 3-21,5-23]

[Necrosis TGLS = 3-21,5-23]

[Pigmentation TGLS = 2-6+21+22+23+24+25]

[Vacuolization Cytoplasmic TGLS = 4-22,6-24,7-25]

Lymph Node	Mediastinal	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Mild
		Leukemia Mononuclear	
Testes	Interstitial Cell	Adenoma	Multiple

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 634

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Preputial Gland
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Nose
Salivary Glands
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Pancreas
Stomach - Forestomach
Trachea

MISSING

Pituitary Gland

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Adenoma
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Mild
Multiple
Multiple, Marked
Moderate
Multifocal, Mild
Multifocal, Marked

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked

Marked
Multifocal, Mild
Multifocal, Mild
Mild

Note: [HEPATOCLR ADEN] TGLs = 8-21
[Cytomegaly TGLS = 4-21,6-23]
[Degeneration TGLS = 4-21,6-23]
[Fibrosis TGLS = 4-21,6-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 634

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-21,6-23]

[Necrosis TGLS = 4-21,6-23]

[Vacuolization Cytoplasmic TGLS = 4-6+21,6-23,7-24,8-25]

Lung

Granuloma

Multiple, Mild

Leukemia Mononuclear

Note: GRANULOMA TGLs = 9-2

Lymph Node

Mediastinal

Ectasia

Moderate

Pancreatic

Ectasia

Moderate

Bronchial

Leukemia Mononuclear

Mandibular

Leukemia Mononuclear

Mediastinal

Leukemia Mononuclear

Mesenteric

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-27

Note: ECTASIA TGLs = 3-27

Mammary Gland

Duct

Cyst

Mesentery

Fat

Necrosis

Focal, Moderate

Note: NECROSIS TGLs = 2-26

Prostate

Inflammation

Subacute, Moderate

Skin

Fibroma

Note: [FIBROMA] TGLs = 10-28+28.1

Spleen

Leukemia Mononuclear

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 618

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Mammary Gland	Mesentery	Nose	Pancreas
Pituitary Gland	Salivary Glands	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland	Preputial Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 618

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Kupffer Cell

Pigmentation

Multifocal, Mild

Hepatocyte

Vacuolization Cytoplasmic

Moderate

Note: NEOVASCULARIZATION OF CYST IS ON SLIDE 23.

Note: CYST TGLs = 6-21,8-23

[Cytomegaly TGLS = 6-21,8-23]

[Degeneration TGLS = 6-21,8-23]

[Fibrosis TGLS = 6-21,8-23]

[Necrosis TGLS = 5-6+21+22+23+24]

[Vacuolization Cytoplasmic TGLS = 6-21,8-23]

Lung

Leukemia Mononuclear

Lymph Node

Mandibular

Leukemia Mononuclear

Mediastinal

Leukemia Mononuclear

Mesenteric

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-26

Prostate

Inflammation

Subacute, Mild

Skin

Bacterium

Mild

Foreign Body

Mild

Inflammation

Subacute, Focal, Moderate

Note: FOREIGN BODY TGLs = 10-25

Note: INFLAMMATION TGLs = 10-25

Note: BACTERIUM TGLs = 10-25

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-6-1

Stomach

Forestomach

Ulcer

Marked

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 394

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Preputial Gland

OBSERVATIONS

Brain		Compression	Mild
		Glioma Malignant	
		Hemorrhage	Multifocal, Mild
Note: COMPRESSION	TGLs = 6-1		
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Mild
	Biliar Tract	Fibrosis	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
Note: TGL 2, 3, AND 4 ARE ON SLIDES I, II, III.			
[Fibrosis TGLS = 2,3,4]			
[Hyperplasia TGLS = 2,3,4]			
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 1-8		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 394

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 5-1
Note: ANGIECTASIS TGLs = 5-1

Prostate	Inflammation	Subacute, Moderate
Spleen	Congestion	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Prostate
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Lung
Lymph Node - Mesenteric
Salivary Glands
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Skin
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Cortex
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.

Islets, Pancreatic
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Focal Cellular Change
Adenoma
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Chronic, Moderate
Multiple
Multiple, Marked
Mild
Multifocal, Mild
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Multifocal, Mild
Moderate

[Cytomegaly TGLS = 8-25]
[Degeneration TGLS = 8-25]
[Fibrosis TGLS = 3-21,4-6+21,5-22,6-23,7-24]
[Hyperplasia TGLS = 3-21,4-6+21,5-22,6-23,7-24]
[Hyperplasia TGLS = 3-21,4-6+21,5-22,6-23,7-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 123	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLS = 3-21,4-6+21,5-22,6-23,7-24]

[Vacuolization Cytoplasmic TGLS = 3-21,4-6+21,5-22,6-23,7-24]

Lymph Node Note: ECTASIA TGLs = 2-7	Pancreatic	Ectasia	Moderate
Mammary Gland	Duct	Cyst	
Pancreas		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Preputial Gland		Inflammation	Suppurative, Acute, Focal, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Testes Note: ADENOMA TGLs = 1-7	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 46

DOSE: 4 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Nose
Preputial Gland
Spleen
Thymus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Lung

Congestion
Foreign Body

Moderate
Moderate

[Foreign Body TGLS = 2-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: NEOVASCULARIZATION ON SLIDE 26.

Note: CYST,MULTILOCC ON SLIDE 6, 22 AND 25

Note: HEPATOCELLULAR CARCINOMA ON SLIDE 21.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 2-21,4-23,5-24,7-26]

[Degeneration TGLS = 2-21,4-23,5-24,7-26]

[Fibrosis TGLS = 2-21,4-23,5-24,7-26]

[Hyperplasia TGLS = 2-21,4-23,5-24,7-26]

[Hyperplasia TGLS = 6-25,3-22]

[Necrosis TGLS = 2-21,4-23,5-24,7-26]

[Vacuolization Cytoplasmic TGLS = 2-21,3-22,4-23,5-24,7-26]

Pancreas

Hyperplasia

Multifocal, Moderate

Spleen

Congestion

Mild

Testes

Interstitial Cell

Hematopoietic Cell Proliferation

Minimal

Adenoma

Multiple

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 627

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Thymus
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OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: CHOLANGIOCARC TGLs = 2-21,4-23,5-24

Note: CYST TGLs = 2-21,4-23,5-24

Note: CYST, MULTILOC ON SLIDE 6.

[Cytomegaly TGLS = 6-6+21+22+23+24]

[Degeneration TGLS = 2-21,3-22,4-23,5-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 126	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 627 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 2-21,4-23,5-24]

[Vacuolization Cytoplasmic TGLS = 2-21,4-23,5-24]

Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ADENOMA	TGLs = 7-1		
Note: ANGIECTASIS	TGLs = 7-1		
Prostate		Inflammation	Subacute, Moderate
Stomach	Forestomach	Hyperplasia	Marked
	Forestomach	Inflammation	Subacute, Moderate
	Forestomach	Perforation	Marked
	Forestomach	Ulcer	Marked
Note: PERFORATION	TGLs = 1-6		
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: CYST, MULTILOCS ON SLIDE 25.

Note: CHOLANGIOCARC TGLs = 3-6+21,5-23,6-24,7-25

[Cytomegaly TGLs = 3-6+21,5-23,6-24,7-25]

[Degeneration TGLs = 3-6+21,5-23,6-24,7-25]

[Fibrosis TGLs = 3-6+21,5-23,6-24,7-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 127	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-6+21,5-23,6-24,7-25]

[Vacuolization Cytoplasmic TGLS = 3-6+21,4-22,5-23,6-24,7-25]

Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Pancreas		Adenoma Hyperplasia	Multifocal, Mild
Note: ADENOMA TGLs = 2-7			
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Marked
Spleen		Congestion Hematopoietic Cell Proliferation	Mild Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial	Preputial Gland
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OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Mild
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: CYST MULTILOC IS ON SLIDE 21.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 2-21,4-23,6-25]

[Degeneration TGLS = 2-21,4-23,6-25]

[Fibrosis TGLS = 2-21,4-23,6-25]

[Hyperplasia TGLS = 2-21,4-23,6-25]

[Necrosis TGLS = 2-21,4-23,6-25]

[Vacuolization Cytoplasmic TGLS = 2-21,3-22,4-23,5-24,6-25]

Lymph Node

Mandibular

Ectasia

Mild

Spleen

Congestion

Mild

Hematopoietic Cell Proliferation

Mild

Testes

Interstitial Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Nose	Preputial Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 8-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: NEOVASCULARIZATION OF CYST ON SLIDE 22 AND 23.
 [Cytomegaly TGLS = 2-22,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 2-22,3-23]

[Fibrosis TGLS = 2-22,3-23]

[Hyperplasia TGLS = 2-22,3-23]

[Necrosis TGLS = 2-22,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,2-22,3-23,4-24,5-25]

Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 6-26		
Pancreas		Adenoma	
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal
Stomach	Glandular	Erosion	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 7-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 7-26			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Biliar Tract	Cholangiocarcinoma	Multiple
		Cyst	Multiple, Moderate
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Minimal
	Biliar Tract	Hepatocellular Carcinoma	
	Hepatocyte	Hyperplasia	Multifocal, Marked
	Biliar Tract	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

[Cytomegaly TGLS = 2-21,3-22,4-23,5-24]

[Degeneration TGLS = 2-21,3-22,4-23,5-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 130	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 2-21,3-22,4-23,5-24]
[Hyperplasia TGLS = 2-21,3-22,4-23,5-24]
[Hyperplasia TGLS = 6-25,2-21]
[Necrosis TGLS = 2-21,3-22,4-23,5-24]
[Pigmentation TGLS = 6-25]
[Vacuolization Cytoplasmic TGLS = 2-21,3-22,4-23,5-24,6-25]

Lymph Node	Mandibular Mandibular	Ectasia Hyperplasia	Mild Lymphoid, Mild
Mammary Gland	Duct	Cyst	
Pancreas		Adenoma Hyperplasia	Multiple Focal, Moderate
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Moderate
Note: ADENOMA	TGLs = 8-1		
Note: ANGIECTASIS	TGLs = 8-1		
Prostate		Inflammation	Subacute, Moderate
Spleen		Congestion Hematopoietic Cell Proliferation	Mild Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 541

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Tongue	Tooth	Trachea
Urinary Bladder	Zymbal's Gland		

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hematopoietic Cell Proliferation	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: FIBROSIS TGLs = 3-23,4-24,5-25,6-26
 [Cytomegaly TGLS = 8-21+22+23+24+25]
 [Degeneration TGLS = 3-23,4-24,5-25,6-26]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 131	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 541 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-23,4-24,5-25,6-26]

[Necrosis TGLS = 3-23,4-24,5-25,6-26]

[Vacuolization Cytoplasmic TGLS = 3-23,4-24,5-25,6-26]

Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA] TGLs = 7-27			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 8-5.2		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: FIBROSIS TGLs = 1-6+21,2-22,3-23,4-24

[Cytomegaly TGLs = 1-6+21,2-22,4-24,5-25]

[Degeneration TGLs = 1-6+21,2-22,3-23,4-24]

[Fibrosis TGLs = 1-6+21,2-22,3-23,4-24]

[Hyperplasia TGLs = 5-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 132	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-6+21,2-22,3-23,4-24]

[Vacuolization Cytoplasmic TGLS = 1-6+21,2-22,3-23,4-24]

Lymph Node	Pancreatic Pancreatic	Ectasia Hyperplasia	Marked Moderate
Note: HYPERPLASIA TGLs = 9-26 Note: ECTASIA TGLs = 9-26			
Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Moderate
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis Pars Distalis	Angiectasis Hyperplasia	Mild Mild
Seminal Vesicle		Inflammation	Subacute, Mild
Spleen		Congestion Hematopoietic Cell Proliferation	Mild Mild
Note: CONGESTION TGLs = 7-6.1 Note: HEMA CELL PROL TGLs = 7-6.1			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 6-7			
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 613

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mesenteric	Parathyroid Gland	Preputial Gland
Salivary Glands	Skin	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hematopoietic Cell Proliferation	Multifocal, Mild
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Minimal
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: [HEPATOCLR ADEN] TGLs = 11-29
 [Cytomegaly TGLs = 10-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 613

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 6-21,7-22,9-24,10-25]

[Fibrosis TGLS = 6-21,8-23,11-29]

[Hyperplasia TGLS = 6-21,8-23,11-29]

[Hyperplasia TGLS = 6-21,8-23,11-29]

[Necrosis TGLS = 6-21,8-23,11-29]

[Vacuolization Cytoplasmic TGLS = 6-21,8-23,11-29]

Lymph Node	Mediastinal	Mesothelioma Malignant	Metastatic (Mesentery)
	Mediastinal	Pigmentation	Hemosiderin, Marked

Note: EXAMPLE OF METASTASIS FROM ABDOMEN TO MEDIASTINAL NODE.

Mammary Gland	Duct	Cyst	
Mesentery		Mesothelioma Malignant	
		Pigmentation	Hemosiderin, Multifocal, Marked

Note: MESOTHELIO MAL TGLs = 3-26,4-27

Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Hyperplasia	Focal, Moderate
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Subacute, Mild
Seminal Vesicle		Mesothelioma Malignant	
Spleen		Congestion	Mild
		Fibrosis	Focal, Moderate
		Hematopoietic Cell Proliferation	Mild
		Mesothelioma Malignant	

Note: FIBROSIS TGLs = 5-28

Stomach	Forestomach	Mesothelioma Malignant	
	Glandular	Mesothelioma Malignant	
Testes	Interstit Cell	Adenoma	Multiple
		Mesothelioma Malignant	

Note: ADENOMA TGLs = 2-7

Urinary Bladder		Mesothelioma Malignant	
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 678

DOSE: 4 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 6-5.1		
Liver		Angiectasis	Focal, Marked
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
		Developmental Malformation	Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hemorrhage	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 678

DOSE: 4 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Centrilobular

Necrosis

Mild

Hepatocyte

Necrosis

Multifocal, Marked

Necrosis

Focal, Marked

Kupffer Cell

Pigmentation

Multifocal, Mild

Thrombosis

Marked

Hepatocyte

Vacuolization Cytoplasmic

Marked

Note: HYPERPLASIA TGLs = 12-27,13-28

Note: HYPERPLASIA TGLs = 7-6+21,8-22,9-23,10-24,11-25

Note: NEOVASCULARIZATION OF CYST IS ON SLIDE 23.

Note: CHOLANGIOCARC TGLs = 7-6,9-23

Note: HEMORRHAGE TGLs = 13-28

Note: THROMBUS IS ALSO ON SLIDE 27.

Note: CYST TGLs = 7-6,9-23

[Cholangiocarcinoma TGLS = 12-27]

[Cyst TGLS = 13-28]

[Cytomegaly TGLS = 7-6,9-23]

[Fibrosis TGLS = 7-6,9-23]

[Inflammation TGLS = 13-28]

[Necrosis TGLS = 7-6,9-23]

[Pigmentation TGLS = 13-28]

Lung

Leukemia Mononuclear

Mammary Gland

Duct

Cyst

Nose

Fungus

Moderate

Inflammation

Suppurative, Acute, Moderate

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Mild

Pars Distalis

Leukemia Mononuclear

Prostate

Inflammation

Subacute, Moderate

Skin

Keratoacanthoma

Note: KERATOACANTHMA TGLs = 1-26

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 134	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Dead	DAY ON TEST: 678 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen Note: LEUKEMIA MONUC TGLs = 5-6		Leukemia Mononuclear	
Stomach	Glandular	Erosion	Mild
Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
Note: ADENOMA TGLs = 2-7 Note: ATROPHY TGLs = 3-7			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: TGL 1 MASS GROWING IN IMPLANTED RATS.

Note: NEOVASCUZATION IS ON SLIDE 23.

[Fibrosis TGLS = 1-21,3-23,4-24]

[Hyperplasia TGLS = 1-21,3-23,4-24]

[Hyperplasia TGLS = 1-21,3-23,4-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-21,3-23,4-24]

[Pigmentation TGLS = 1-21,3-23,4-24]

[Vacuolization Cytoplasmic TGLS = 1-21,2-22,3-23,4-24]

Lymph Node	Mediastinal	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal
Testes	Interstitial Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 5-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Preputial Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Small - Duodenum
Lung
Nose
Prostate
Thymus

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Bronchial
Parathyroid Gland
Salivary Glands
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Intestine Large
Kidney
Liver

Rectum

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte

Kupffer Cell
Hepatocyte

Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Neovascularization
Pigmentation
Vacuolization Cytoplasmic

Mild
Mild
Chronic, Moderate

Multiple
Multiple, Marked
Mild
Multifocal, Mild
Multifocal, Moderate
Multiple, Mild
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Mild
Multifocal, Mild
Moderate

Note: BASOPHILIC FOCAL ON SLIDE 25.

Note: NEOVASCULARIZATION OF CYST ON SLIDE 23.

Note: INFLAMMATION TGLs = 6-6+21,8-23,11-25

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CHOLANGIOCARC TGLs = 6-6+21,8-23,9-23,11-25

[Cytomegaly TGLS = 6-6+21,8-23,11-25]

[Fibrosis TGLS = 6-6+21,8-23,9-23,11-25]

[Vacuolization Cytoplasmic TGLS = 6-6+21,8-23,9-23,11-25]

Lymph Node

Mandibular

Ectasia

Mild

Mesenteric

Ectasia

Mild

Pancreatic

Ectasia

Moderate

Note: ECTASIA TGLs = 5-7

Mesentery

Fat

Necrosis

Focal, Marked

Note: NECROSIS TGLs = 3-27

Pancreas

Hyperplasia

Multifocal, Mild

Skin

Subcut Tiss

Fibroma

Note: FIBROMA TGLs = 1-26

Spleen

Congestion

Mild

Note: CONGESTION TGLs = 4-6

Note: HEMA CELL PROL TGLs = 4-6

Hematopoietic Cell Proliferation

Mild

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 2-7

Tongue

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 12-28

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 665

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Mild
		Hepatocellular Adenoma	Multiple
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: [HEPATOCLR ADEN] TGLs = 7,9,11,12-21+22+24+25
 [Cytomegaly TGLS = 8-21,10-23]
 [Degeneration TGLS = 8-21,10-23]
 [Fibrosis TGLS = 8-21,10-23]
 [Hyperplasia TGLS = 8-21,10-23]
 [Necrosis TGLS = 8-21,10-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 137

TRT#: 5
DOSE: 4 MG/KG

SEX: Male
DISP: Moribund

DAY ON TEST: 665
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 8-21,9-22,10-23,11-24,12-25]

Lymph Node	Pancreatic	Ectasia	Mild
	Bronchial	Inflammation	Granulomatous, Mild
	Inguinal	Inflammation	Granulomatous, Mild
	Mandibular	Inflammation	Granulomatous, Mild
	Mediastinal	Inflammation	Granulomatous, Mild
	Mesenteric	Inflammation	Granulomatous, Mild
	Pancreatic	Inflammation	Granulomatous, Mild
Note: INFLAMMATION	TGLs = 5-26		
Note: ECTASIA	TGLs = 5-26		
Pancreas		Adenoma	
Note: ADENOMA	TGLs = 6-27		
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA]	TGLs = 1-28		
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
		Inflammation	Granulomatous, Mild
Note: HEMA CELL PROL	TGLs = 4-6		
Note: CONGESTION	TGLs = 4-6		
Note: INFLAMMATION	TGLs = 4-6		
Testes		Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild
Note: ATROPHY	TGLs = 3-7		
Note: [HYPERPLASIA]	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Salivary Glands
Thyroid Gland

Bone
Intestine Large - Colon
Intestine Small - Jejunum
Skin
Trachea

Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Stomach - Glandular
Urinary Bladder

Esophagus
Intestine Small - Duodenum
Nose
Thymus

OBSERVATIONS

Adrenal Gland
Bone Marrow
Brain
Heart
Kidney

Cortex

Cortex

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Cardiomyopathy
Cyst

Mild

Liver

Cortex

Biliar Tract

Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Leukemia Mononuclear
Nephropathy
Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Adenoma
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Chronic, Marked
Multiple
Multiple, Marked

Moderate
Multifocal, Moderate
Multifocal, Marked

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked

Marked
Multifocal, Moderate
Multifocal, Mild
Mild

Note: CYST, MULTILOC ON SLIDE 21.

[Cytomegaly TGLS = 4-21,6-23+23-1,7-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 4-21,6-23,7-24]

[Fibrosis TGLS = 4-21,6-23,7-24]

[Hyperplasia TGLS = 4-21,6-23+23-1,7-24]

[Necrosis TGLS = 4-21,6-23+23-1,7-24]

[Vacuolization Cytoplasmic TGLS = 4-21,5-22,7-24,8-25,9-26]

Lung		Granuloma	Multiple, Minimal
		Leukemia Mononuclear	
Lymph Node	Bronchial	Ectasia	Mild
	Mediastinal	Ectasia	Mild
	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Multifocal, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Prostate		Inflammation	Subacute, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6+6-1		
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Small - Duodenum

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Intestine Large	Rectum	Fibrosis	Focal, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Minimal
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: HYPERPLASIA TGLs = 2-21,4-23
 [Cytomegaly TGLS = 3-22,5-24,6-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 2-21,4-23]
[Fibrosis TGLS = 2-21,4-23]
[Necrosis TGLS = 2-21,4-23]
[Vacuolization Cytoplasmic TGLS = 2-21,4-23]

Mesentery	Fat	Necrosis	Focal, Moderate
Note: NECROSIS	TGLs = 7-26		
Nose		Foreign Body	Mild
		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
Prostate		Inflammation	Subacute, Minimal
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Preputial Gland
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Skin
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Medulla

Biliar Tract

Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte

Kupffer Cell
Hepatocyte

Hyperplasia
Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Neovascularization
Pigmentation
Vacuolization Cytoplasmic

Mild
Minimal
Chronic, Moderate
Multiple
Multiple, Moderate

Moderate
Multifocal, Mild
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Marked
Multifocal, Mild
Mild
Multifocal, Mild
Moderate

Note: NEOVASCULARIZATION IS ON SLIDE 23.

Note: CYST, MULTILOCS IS ON SLIDE 21.

[Cytomegaly TGLS = 3-6+21+22+23+24]

[Degeneration TGLS = 4-6+21,5-22,6-23,7-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4-6+21,6-23]

[Hyperplasia TGLS = 4-6+21,6-23]

[Hyperplasia TGLS = 4-6+21,6-23]

[Necrosis TGLS = 4-6+21,6-23]

[Vacuolization Cytoplasmic TGLS = 4-6+21,6-23]

Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Lymph Node	Mediastinal	Ectasia	Mild
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 8-26		
Pancreas		Adenoma	
		Hyperplasia	Focal, Mild
Note: ADENOMA	TGLs = 2-25		
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Testes	Interstitial Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN	TGLs = 9-6		
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney	Cortex	Cyst	
		Leukemia Mononuclear	
Note: CYST	TGLs = 10-5	Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
		Developmental Malformation	
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 141	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Biliar Tract	Inflammation Leukemia Mononuclear	Chronic, Multifocal, Marked
Biliar Tract	Metaplasia	Marked
Hepatocyte	Necrosis Neovascularization	Multifocal, Moderate Mild
Kupffer Cell	Pigmentation	Multifocal, Mild
Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: CYST, MULTILOC IS ON SLIDE 21.
 Note: NEOVASCULARIZATION OF CYST IS ON SLIDE 23.
 Note: [DEVELOP MALFOR] TGLs = 6-25
 Note: HEPATOCELL CARCINOMA IS ON SLIDE 23.
 [Cytomegaly TGLS = 1-21,2-22,3-23,4-24]
 [Fibrosis TGLS = 1-21,2-22,3-23,4-24]
 [Hyperplasia TGLS = 11-6]
 [Necrosis TGLS = 1-21,2-22,3-23,4-24]
 [Neovascularization TGLS = 1-21,2-22,3-23,4-24]
 [Vacuolization Cytoplasmic TGLS = 1-21,2-22,3-23,4-24]

Lung		Alveolar/Bronchiolar Carcinoma Leukemia Mononuclear	
Note: ALV BRON CARC	TGLs = 12-2		
Lymph Node	Bronchial Mediastinal	Leukemia Mononuclear Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Adenoma	
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 5-26		
Spleen		Fibrosis Leukemia Mononuclear	Focal, Mild
Note: LEUKEMIA MONUC	TGLs = 8-6		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 7-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: [HEPATOCLR ADEN] TGLs = 12-29
 [Cyst TGLS = 7-6+21+22+23+24+29]
 [Cytomegaly TGLS = 8-6+21,9-22,10-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 8-6+21,9-22,10-23]

[Fibrosis TGLS = 8-6+21,9-22,10-23]

[Necrosis TGLS = 8-6+21,9-22,10-23]

[Vacuolization Cytoplasmic TGLS = 8-6+21,9-22,10-23]

Lymph Node	Mandibular	Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 3-26		
Pancreas		Adenocarcinoma	
Note: ADENOCARC	TGLs = 4-27		
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-25		
Spleen		Fibrosis	Focal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
Note: FIBROSIS	TGLs = 6-28		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Salivary Glands	Skin	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Preputial Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Moderate
		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 143	TRT#: 5 DOSE: 4 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Kupffer Cell Hepatocyte	Pigmentation Vacuolization Cytoplasmic	Multifocal, Mild Mild
Note: CHOLANGIOCARC	TGLs = 5-21,7-23,8-23 [Cytomegaly TGLS = 5-21,7-23,8-23] [Degeneration TGLS = 5-21,7-23,8-23] [Fibrosis TGLS = 5-21,7-23,8-23] [Vacuolization Cytoplasmic TGLS = 5-21,7-23,8-23]		
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial Iliac Mandibular Mediastinal Mesenteric Pancreatic Renal	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-3		
Note: LEUKEMIA MONUC	TGLs = 13-27		
Note: LEUKEMIA MONUC	TGLs = 11-26		
Note: LEUKEMIA MONUC	TGLs = 3-7		
Note: LEUKEMIA MONUC	TGLs = 1-5-1		
Mammary Gland	Duct	Cyst	
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 14-1		
Note: ADENOMA	TGLs = 14-1		
Prostate		Inflammation	Subacute, Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6-1		
Stomach	Forestomach	Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 2-7

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 144 TRT#: 5 SEX: Male DAY ON TEST: 589
 DOSE: 4 MG/KG DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mediastinal	Pancreas
Parathyroid Gland	Preputial Gland	Salivary Glands	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-1		
Note: HEMORRHAGE	TGLs = 12-1		
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Dead

DAY ON TEST: 589

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST, MULTILOC IS ON SLIDE 21.

[Cytomegaly TGLS = 6-21,8-23]

[Degeneration TGLS = 6-21,8-23]

[Fibrosis TGLS = 6-21,8-23]

[Hyperplasia TGLS = 6-21,8-23]

[Inflammation TGLS = 5-6+21+22+23+24]

[Necrosis TGLS = 6-21,8-23]

Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 10-25

Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Leukemia Mononuclear	

Note: ADENOMA TGLs = 13-1

Note: ANGIECTASIS TGLs = 13-1

Note: LEUKEMIA MONUC TGLs = 13-1

Prostate		Inflammation	Subacute, Mild
Spleen		Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 3-6

Stomach	Forestomach	Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Leukemia Mononuclear	

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Small - Duodenum
Lung
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Bronchial
Preputial Gland
Thymus

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Intestine Large
Kidney
Liver

Medulla
Cecum
Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Pheochromocytoma Benign
Cardiomyopathy
Parasite Metazoan
Nephropathy
Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Mild
Chronic, Marked
Multiple
Multiple, Marked
Moderate
Multifocal, Mild
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Multifocal, Mild
Marked

Note: LEUKEMIA MONUC TGLs = 8-6+21+22+23+24

Note: CHOLANGIOCARC TGLs = 1-6+21,3-23

[Cytomegaly TGLs = 1-6+21,3-23]

[Degeneration TGLs = 1-6+21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 1-6+21,3-23]

[Necrosis TGLS = 4-24]

[Vacuolization Cytoplasmic TGLS = 1-6+21,3-23]

Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 6-5		
Note: ECTASIA	TGLs = 6-5		
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
	Nasolacrim Dct	Squamous Cell Carcinoma	
Pancreas		Atrophy	Multifocal, Mild
		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-1		
Prostate		Inflammation	Subacute, Minimal
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 5-25		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 7-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 410

DOSE: 4 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Islets, Pancreatic
Nose
Preputial Gland
Spleen
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

MISSING

Lymph Node - Bronchial

Lymph Node - Mediastinal

OBSERVATIONS

Intestine Large
Kidney
Liver

Rectum

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Parasite Metazoan
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Minimal
Multiple
Multiple, Moderate
Mild
Multifocal, Moderate
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Multifocal, Mild
Marked

Note: TGL 1, 2, 3, AND 4 ARE ON SLIDES I, II, III, AND IV.

[Cytomegaly TGLS = 1,2,3,4]

[Degeneration TGLS = 1,2,3,4]

[Hyperplasia TGLS = 1,2,3]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 410

DOSE: 4 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1,2,3]

[Necrosis TGLS = 1,2,3,4]

[Vacuolization Cytoplasmic TGLS = 1,2,3,4]

Lung

Congestion

Marked

Foreign Body

Mild

Note: CONGESTION TGLs = 5-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Preputial Gland	Salivary Glands	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: FIBROSIS TGLs = 4-6+21,6-23,7-23,8-24

Note: NEOVASCULARIZATION OF CYST IS ON SLIDE 23.

[Cytomegaly TGLs = 4-6+21,6-23,7-23,8-24]

[Degeneration TGLs = 4-6+21,6-23,7-23,8-24]

[Fibrosis TGLs = 5-22,9-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-6+21,6-23,7-23,8-24]

[Necrosis TGLS = 4-6+21,6-23,7-23,8-24]

[Vacuolization Cytoplasmic TGLS = 5-22,9-25]

Lymph Node	Bronchial	Ectasia	Mild
	Mediastinal	Ectasia	Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-27		
Pancreas		Hyperplasia	Focal, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Subacute, Minimal
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC	TGLs = 1-26		
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 3-7		
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 520

DOSE: 4 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex, Left	Atrophy	Mild
	Cortex	Hemorrhage	Moderate
	Cortex	Leukemia Mononuclear	
	Cortex	Necrosis	Diffuse, Moderate
	Medulla	Pheochromocytoma Malignant	
Note: ATROPHY	TGLs = 3-6-1		
Note: HEMORRHAGE	TGLs = 4-25		
Note: PHEOCHROM MAL	TGLs = 4-25		
Note: LEUKEMIA MONUC	TGLs = 4-25		
Note: NECROSIS	TGLs = 4-25		
Bone Marrow		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
		Cholangiocarcinoma	Multiple
Liver	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Dead

DAY ON TEST: 520

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
Biliar Tract	Metaplasia	Marked
Hepatocyte	Necrosis	Multifocal, Mild
Kupffer Cell	Pigmentation	Multifocal, Mild
Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: FIBROSIS TGLs = 6-21,8-23
 Note: HYPERPLASIA TGLs = 6-21,8-23
 [Cytomegaly TGLS = 6-21,8-23]
 [Degeneration TGLS = 6-21,8-23]
 [Vacuolization Cytoplasmic TGLS = 6-21,8-23]

Lung		Leukemia Mononuclear	
		Pheochromocytoma Malignant	Metastatic (Adrenal Gland)
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			
Testes	Interstit Cell	Adenoma	Multiple
	Interstit Cell	Adenoma	Multiple

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 618

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Pancreas	Preputial Gland	Salivary Glands	Skin
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Brain		Compression	Mild
Note: COMPRESSION	TGLs = 11-1		
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 3-21,4-22,5-23,6-24]

[Degeneration TGLS = 3-21,4-22,5-23,6-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 5

DOSE: 4 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 618

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-21,4-22,5-23,6-24]

[Necrosis TGLS = 3-21,4-22,5-23,6-24]

[Vacuolization Cytoplasmic TGLS = 3-21,4-22,5-23,6-24]

Lymph Node	Pancreatic Pancreatic	Ectasia Hyperplasia	Moderate Mild
Note: ECTASIA	TGLs = 8-27		
Note: HYPERPLASIA	TGLs = 8-27		
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
Note: NECROSIS	TGLs = 7-26		
Nose		Foreign Body Fungus Inflammation	Mild Moderate Suppurative, Acute, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Marked
Note: ADENOMA	TGLs = 10-1		
Note: ANGIECTASIS	TGLs = 10-1		
Prostate		Inflammation	Subacute, Moderate
Spleen		Fibrosis Hematopoietic Cell Proliferation	Focal, Mild Mild
Note: FIBROSIS	TGLs = 1-25		
Stomach	Forestomach Forestomach	Hyperplasia Ulcer	Moderate Marked
Note: ULCER	TGLs = 9-4		
Note: HYPERPLASIA	TGLs = 9-4		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: [HEPATOCLR ADEN] TGLs = 8-26
 [Cytomegaly TGLs = 6-24]
 [Degeneration TGLs = 3-21,8-26]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-21,4-22,5-23,7-25]

[Hyperplasia TGLS = 3-21,4-22,5-23,7-25]

[Hyperplasia TGLS = 3-21,4-22,5-23,7-25]

[Necrosis TGLS = 3-21,4-22,5-23,7-25]

[Vacuolization Cytoplasmic TGLS = 3-21,4-22,5-23,7-25]

Mammary Gland

Duct

Cyst

Pancreas

Hyperplasia

Multifocal, Mild

Note: HYPERPLASIA TGLs = 2-7

Spleen

Congestion

Mild

Testes

Interstit Cell

Hematopoietic Cell Proliferation

Mild

Note: ADENOMA TGLs = 1-7

Adenoma

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Preputial Gland
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Mild
Multiple
Multiple, Marked
Mild
Multifocal, Mild
Multifocal, Marked
Multiple, Mild
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Marked
Multifocal, Mild
Multifocal, Mild
Mild

[Degeneration TGLS = 3-21,5-23]

[Fibrosis TGLS = 3-21,5-23]

[Hyperplasia TGLS = 3-21,5-23]

[Necrosis TGLS = 3-21,5-23]

[Vacuolization Cytoplasmic TGLS = 3-21,5-23]

Lung

Smooth Muscle

Hyperplasia

Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Mild
Prostate		Inflammation	Subacute, Mild
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-26		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-7		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 525

DOSE: 2 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Minimal
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 525

DOSE: 2 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 6-21,8-23]
[Degeneration TGLS = 6-21,8-23]
[Fibrosis TGLS = 6-21,8-23]
[Hyperplasia TGLS = 10-21+22+23+24]
[Necrosis TGLS = 6-21,8-23]
[Vacuolization Cytoplasmic TGLS = 6-21,8-23]

Lung		Leukemia Mononuclear
Lymph Node	Mandibular	Leukemia Mononuclear
	Pancreatic	Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 5-26	
Mammary Gland	Duct	Cyst
Mesentery		Leukemia Mononuclear
Nose	Nasolacrim Dct	Inflammation
Prostate		Inflammation
Skin	Subcut Tiss	Fibroma
Note: FIBROMA	TGLs = 1-25	
Spleen		Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 4-2	

Subacute, Mild
Subacute, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 668

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Nose
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Glandular

Bone
Esophagus
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Preputial Gland
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Mammary Gland
Salivary Glands
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Mild
Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Multifocal, Mild
Moderate

[Cytomegaly TGLS = 4-22,6-24]
[Degeneration TGLS = 3-21,5-23]
[Fibrosis TGLS = 3-21,5-23]
[Hyperplasia TGLS = 3-21,5-23]
[Necrosis TGLS = 3-21,5-23]
[Vacuolization Cytoplasmic TGLS = 3-21,5-23]

Pancreas

Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 668

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

		Atrophy	Focal, Mild
		Hyperplasia	Multifocal, Mild
Note: ADENOMA TGLs = 7-25 Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Edema	Focal, Mild
	Subcut Tiss	Inflammation	Subacute, Focal, Mild
Note: INFLAMMATION TGLs = 9-26 Note: EDEMA TGLs = 9-26 Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7 Thymus		Cyst	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 7

DOSE: 2 MG/KG

SEX: Male

DISP: Dead

DAY ON TEST: 660

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Parathyroid Gland
Preputial Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-6		
Note: LEUKEMIA MONUC	TGLs = 8-6		
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Marked
		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 660

DOSE: 2 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 9-6+21+22+23+24

[Cytomegaly TGLS = 10-21,12-23]

[Fibrosis TGLS = 10-21,12-23]

[Hyperplasia TGLS = 10-21,12-23]

[Hyperplasia TGLS = 10-21,12-23]

[Necrosis TGLS = 10-21,12-23]

Lung

Leukemia Mononuclear

Lymph Node

Bronchial

Leukemia Mononuclear

Inguinal

Leukemia Mononuclear

Mandibular

Leukemia Mononuclear

Mediastinal

Leukemia Mononuclear

Mesenteric

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-5

Note: LEUKEMIA MONUC TGLs = 15-3

Note: LEUKEMIA MONUC TGLs = 5-26

[Leukemia Mononuclear TGLS = 14-28]

Mesentery

Leukemia Mononuclear

Nose

Fungus

Moderate

Inflammation

Suppurative, Acute, Moderate

Pancreas

Atrophy

Multifocal, Mild

Hyperplasia

Focal, Mild

Note: HYPERPLASIA IS ON SLIDE 26.

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Focal, Mild

Pars Distalis

Leukemia Mononuclear

Pars Distalis

Pigmentation

Hemosiderin, Mild

Prostate

Inflammation

Subacute, Mild

Skin

Keratoacanthoma

Note: KERATOACANTHMA TGLs = 1-25

Spleen

Fibrosis

Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 660

DOSE: 2 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

Note: FIBROSIS TGLs = 7-27

Note: LEUKEMIA MONUC TGLs = 6-6-1

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 3-7

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Bronchial

Lymph Node - Mandibular

Lymph Node - Mesenteric

Mammary Gland

Nose

Parathyroid Gland

Preputial Gland

Prostate

Salivary Glands

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

OBSERVATIONS

Bone Marrow

Hyperplasia

Mild

Epididymis

Mesothelioma Malignant

Eye

Cataract

Mild

Retina

Degeneration

Marked

Note: DEGEN TGLs = 1-44

Note: CATARACT TGLs = 1-44

Heart

Cardiomyopathy

Mild

Kidney

Leukemia Mononuclear

Liver

Nephropathy

Chronic, Moderate

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Moderate

Hepatocyte

Cytomegaly

Mild

Hepatocyte

Degeneration

Multifocal, Mild

Biliar Tract

Fibrosis

Multifocal, Moderate

Hematopoietic Cell Proliferation

Multifocal, Mild

Biliar Tract

Hyperplasia

Multifocal, Moderate

Hepatocyte

Hyperplasia

Nodular, Multifocal, Mild

Biliar Tract

Inflammation

Chronic, Multifocal, Moderate

Leukemia Mononuclear

Biliar Tract

Metaplasia

Moderate

Hepatocyte

Necrosis

Multifocal, Mild

Kupffer Cell

Pigmentation

Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 7-21+21-1,9-23]
 [Degeneration TGLS = 7-21+21-1,9-23]
 [Fibrosis TGLS = 7-21+21-1,9-23]
 [Hyperplasia TGLS = 7-21+21-1,9-23]
 [Necrosis TGLS = 7-21+21-1,9-23]

Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Ectasia	Moderate
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 5-27			
Pancreas		Adenoma	Multiple
		Hyperplasia	Focal, Mild
Note: ADENOMA TGLs = 6-26			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 2-25			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Mesothelioma Malignant	
Note: ADENOMA TGLs = 4-7			
Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 25

DOSE: 2 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Bronchial
Nose
Prostate
Stomach - Forestomach
Thyroid Gland

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Lymph Node - Mesenteric
Pituitary Gland
Skin
Testes
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Mammary Gland
Preputial Gland
Spleen
Thymus

MISSING

Adrenal Gland - Medulla

Lymph Node - Mediastinal

OBSERVATIONS

Lung

Congestion
Foreign Body

Moderate
Moderate

Note: CONGESTION TGLs = 1-4

Pancreas

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 2-21,4-23]
 [Degeneration TGLS = 2-21,4-23]
 [Fibrosis TGLS = 2-21,4-23]
 [Necrosis TGLS = 2-21,4-23]
 [Vacuolization Cytoplasmic TGLS = 2-21,4-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 157	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 2 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Lung		Granuloma Infiltration Cellular Leukemia Mononuclear	Multiple, Minimal Histiocyte, Multifocal, Mild
Lymph Node	Mesenteric Mediastinal Mesenteric	Congestion Leukemia Mononuclear Leukemia Mononuclear	Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Fibrosis Hematopoietic Cell Proliferation Leukemia Mononuclear	Focal, Moderate Minimal
Note: FIBROSIS	TGLs = 6-25		
Testes	Interstitial Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1		

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 7

DOSE: 2 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 539

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Preputial Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Salivary Glands
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Parathyroid Gland
Skin
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Forestomach
Trachea

MISSING

Lymph Node - Mandibular

Lymph Node - Mediastinal

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Centrilobular
Hepatocyte
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Minimal
Chronic, Mild
Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Mild
Multifocal, Mild
Multifocal, Mild
Marked

[Cytomegaly TGLS = 2-21,4-23]
[Degeneration TGLS = 2-21,4-23]
[Fibrosis TGLS = 2-21,4-23]
[Necrosis TGLS = 2-21,4-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 158	TRT#: 7 DOSE: 2 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 539 HISTO:
-----------------------	----------------------------------------	-------------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 2-21,4-23]

Lung		Granuloma	Multiple, Minimal
	Fat, Mediastinum	Necrosis	Multifocal, Mild
Note: NECROSIS	TGLs = 6-26		
Note: GRANULOMA	TGLs = 7-4		
Mammary Gland		Adenocarcinoma	
	Duct	Cyst	
Note: [ADENOCARC]	TGLs = 1-25		
Prostate		Inflammation	Subacute, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Islets, Pancreatic
Lymph Node - Mediastinal
Pituitary Gland
Skin
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Preputial Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Prostate
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Thymus

OBSERVATIONS

Adrenal Gland
Intestine Large
Kidney
Liver

Medulla
Rectum

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hyperplasia
Parasite Metazoan
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Focal, Mild
Mild
Chronic, Mild

Multiple
Multiple, Moderate
Minimal
Multifocal, Mild
Multifocal, Moderate
Multiple, Mild
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Multifocal, Minimal
Moderate

[Cytomegaly TGLS = 4-21,6-23,7-24]

[Degeneration TGLS = 4-21,6-23,7-24]

[Fibrosis TGLS = 4-21,6-23,7-24]

[Necrosis TGLS = 4-21,6-23,7-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 4-21,6-23,7-24]

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-26+26-1

Mesentery

Fat

Necrosis

Focal, Moderate

Note: NECROSIS TGLs = 3-27

Pancreas

Adenoma

Spleen

Congestion

Mild

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mesenteric	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	Multiple
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: [HEPATOCLR ADEN] TGLs = 8-21

Note: [HEPATOCLR ADEN] TGLs = 8-25

Note: CHOLANGIOCARC TGLs = 5-23-1,6-23

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 5-23-1]
[Degeneration TGLS = 5-23-1]
[Necrosis TGLS = 5-23-1]
[Pigmentation TGLS = 5-23-1]
[Vacuolization Cytoplasmic TGLS = 3-21,4-22,7-24,8-25]

Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Ectasia	Mild
	Mediastinal	Leukemia Mononuclear	
Note: ECTASIA	TGLs = 10-3		
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6+6-1		
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 9-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 161

TRT#: 7

DOSE: 2 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 660

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Hematopoietic Cell Proliferation	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukocytosis	Mild
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild

Note: CHOLANGIOCARC TGLs = 4-21,6-23

[Cytomegaly TGLs = 4-21,6-23]

[Degeneration TGLs = 4-21,6-23]

[Fibrosis TGLs = 4-21,6-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 161 **TRT#:** 7 **SEX:** Male **DAY ON TEST:** 660
DOSE: 2 MG/KG **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-21,6-23]			
Lymph Node	Inguinal	Ectasia	Marked
	Inguinal	Hyperplasia	Moderate
	Mandibular	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 1-8			
Note: ECTASIA TGLs = 1-8			
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Multifocal, Mild
		Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ADENOMA TGLs = 8-1			
Note: ANGIECTASIS TGLs = 8-1			
Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 2-26			
Prostate		Inflammation	Subacute, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 3-6			
Testes	Interstit Cell	Hyperplasia	Mild
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 7

DOSE: 2 MG/KG

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Multifocal, Mild
	Medulla	Pheochromocytoma Benign	
Bone		Fibrous Osteodystrophy	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Minimal
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 2-21,4-23]

[Degeneration TGLS = 2-21,4-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 2-21,4-23]

[Necrosis TGLS = 2-21,4-23]

[Vacuolization Cytoplasmic TGLS = 2-21,4-23]

Lymph Node	Mandibular	Ectasia	Mild
Pancreas		Atrophy	Multifocal, Mild
Spleen		Congestion	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		
Thyroid Gland	C Cell	Adenoma	
Note: ADENOMA	TGLs = 6-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: NEOVASCULARIZATION IS ON SLIDE 6.

[Cytomegaly TGLS = 2-6+21,4-23]

[Degeneration TGLS = 2-6+21,4-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 2-6+21,4-23]

[Necrosis TGLS = 2-6+21,4-23]

[Vacuolization Cytoplasmic TGLS = 2-6+21,4-23]

Pancreas

Hyperplasia

Focal, Mild

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pancreas
Prostate
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Mammary Gland
Pituitary Gland
Skin
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Preputial Gland
Stomach - Glandular
Urinary Bladder

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Moderate

Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Moderate
Multiple, Mild
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Multifocal, Mild
Moderate

Note: FIBROSIS TGLs = 3-21,5-23
[Cytomegaly TGLs = 3-21,5-23]
[Degeneration TGLs = 3-21,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 6-24,7-25]

[Necrosis TGLS = 3-21,5-23]

[Vacuolization Cytoplasmic TGLS = 3-21,5-23]

Spleen

Congestion

Mild

Hematopoietic Cell Proliferation

Minimal

Stomach

Artery, Forestomach

Inflammation

Subacute, Moderate

Testes

Interstitial Cell

Adenoma

Multiple

Atrophy

Mild

Note: ATROPHY TGLs = 2-7

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Prostate	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Hepatocellular Carcinoma	
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: CYST, MULTILOCS IS ON SLIDE 6 AND 21.

[Cyst TGLS = 1-21,3-23,4-24]

[Cytomegaly TGLS = 2-22,5-25]

[Degeneration TGLS = 1-21,3-23,4-24]

[Fibrosis TGLS = 1-21,3-23,4-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-21,3-23,4-24]

[Vacuolization Cytoplasmic TGLS = 1-21,3-23,4-24]

Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland	Duct	Cyst	
		Inflammation	Subacute, Focal, Mild
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 6-26		
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 7-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: THE NEOVASCULARIZATION OF THE CYST IS ON SLIDE 23.

[Cytomegaly TGLS = 1-21,2-22,3-23]

[Degeneration TGLS = 1-21,2-22,3-23]

[Fibrosis TGLS = 1-21,2-22,3-23]

[Necrosis TGLS = 1-21,2-22,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,2-22,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Subacute, Mild
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
Testes	Interstit Cell	Adenoma	Multiple

Note: ADENOMA TGLs = 5-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Stomach - Glandular

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Parathyroid Gland
Thymus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Salivary Glands
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Hyperplasia
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Adenoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Mild
Mild
Chronic, Moderate

Multiple
Multiple, Moderate
Moderate
Multifocal, Mild
Multifocal, Moderate

Multifocal, Moderate
Nodular, Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

[Cytomegaly TGLS = 5-21,7-23]
[Degeneration TGLS = 5-21,7-23]
[Fibrosis TGLS = 5-21,7-23]
[Hyperplasia TGLS = 5-21,7-23]
[Vacuolization Cytoplasmic TGLS = 5-21,7-23]

Lymph Node
Mandibular
Pancreatic

Ectasia
Ectasia

Mild
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 167	TRT#: 7 DOSE: 2 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Mandibular	Hyperplasia	Mild
	Mesenteric	Hyperplasia	Mild
	Pancreatic	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-26			
Note: ECTASIA TGLs = 3-26			
Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Multifocal, Mild
Note: HYPERPLASIA TGLs = 4-7+25			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland	Duct	Cyst	
Prostate		Inflammation	Subacute, Mild
Skin		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 1-25			
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 2-7			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Esophagus

Intestine Small - Duodenum

Lung

Parathyroid Gland

Stomach - Glandular

Urinary Bladder

Bone

Intestine Large - Cecum

Intestine Small - Ileum

Lymph Node - Bronchial

Salivary Glands

Thymus

Brain

Intestine Large - Colon

Intestine Small - Jejunum

Lymph Node - Mandibular

Spleen

Thyroid Gland

Epididymis

Intestine Large - Rectum

Islets, Pancreatic

Lymph Node - Mesenteric

Stomach - Forestomach

Trachea

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Focal, Mild

Medulla

Pheochromocytoma Benign

Bone Marrow

Hyperplasia

Mild

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Chronic, Moderate

Liver

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Moderate

Hepatocyte

Cytomegaly

Mild

Hepatocyte

Degeneration

Multifocal, Mild

Biliar Tract

Fibrosis

Multifocal, Moderate

Biliar Tract

Granuloma

Multiple, Mild

Biliar Tract

Hyperplasia

Multifocal, Moderate

Biliar Tract

Inflammation

Chronic, Multifocal, Moderate

Hepatocyte

Metaplasia

Moderate

Kupffer Cell

Necrosis

Multifocal, Mild

Hepatocyte

Pigmentation

Multifocal, Minimal

Vacuolization Cytoplasmic

Mild

[Cytomegaly TGLS = 5-21,7-23]

[Degeneration TGLS = 5-21,7-23]

[Fibrosis TGLS = 5-21,7-23]

[Necrosis TGLS = 5-21,7-23]

[Vacuolization Cytoplasmic TGLS = 5-21,7-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 168 **TRT#:** 7 **SEX:** Male **DAY ON TEST:** 732
DOSE: 2 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mediastinal	Ectasia	Minimal
	Mediastinal	Hyperplasia	Mild
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Adenoma	
		Hyperplasia	Focal, Mild
Note: ADENOMA TGLs = 4-28			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Necrosis	Mild
Note: ANGIECTASIS TGLs = 9-1			
Note: [NECROSIS] TGLs = 9-1			
Preputial Gland		Adenoma	
Note: [ADENOMA] TGLs = 2-8.1+27			
Prostate		Inflammation	Subacute, Moderate
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-26			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Pituitary Gland
Preputial Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Lymph Node - Mandibular	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Minimal
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: NEOVASCULARIZATION IS ON SLIDE 23.

[Cytomegaly TGLS = 1-21,3-23]

[Degeneration TGLS = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 169	TRT#: 7 DOSE: 2 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 1-21,3-23]

[Necrosis TGLS = 1-21,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Multifocal, Mild
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Testes	Interstitial Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 5-7		
Thyroid Gland	C Cell	Adenoma	
Note: [ADENOMA]	TGLs = 6-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 694

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Bone

Brain

Epididymis

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Bronchial

Lymph Node - Mandibular

Lymph Node - Mediastinal

Lymph Node - Mesenteric

Parathyroid Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Focal Cellular Change

Bone Marrow

Leukemia Mononuclear

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Chronic, Marked

Note: NEPHROPATHY TGLs = 4-5

Liver

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Moderate

Hepatocyte

Cytomegaly

Mild

Hepatocyte

Degeneration

Multifocal, Mild

Biliar Tract

Fibrosis

Multifocal, Moderate

Biliar Tract

Hyperplasia

Multifocal, Moderate

Hepatocyte

Hyperplasia

Nodular, Multifocal, Mild

Biliar Tract

Inflammation

Chronic, Multifocal, Moderate

Leukemia Mononuclear

Biliar Tract

Metaplasia

Marked

Hepatocyte

Necrosis

Multifocal, Mild

Kupffer Cell

Pigmentation

Multifocal, Minimal

Hepatocyte

Vacuolization Cytoplasmic

Mild

Note: THE CYST, MULTILOC IS ON SLIDE 22.

[Cyst TGLS = 5-6+21+22+23+24]

[Cytomegaly TGLS = 6-21,8-23]

[Degeneration TGLS = 6-21,8-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 7

DOSE: 2 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 694

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 6-21,8-23]

[Necrosis TGLS = 6-21,8-23]

[Vacuolization Cytoplasmic TGLS = 6-21,8-23]

Lung	Alveolar Epith	Hyperplasia Leukemia Mononuclear	Multifocal, Minimal
Note: HYPERPLASIA	TGLs = 10-2		
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Atrophy	Multifocal, Mild
		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Moderate
Note: ADENOMA	TGLs = 11-1		
Note: ANGIECTASIS	TGLs = 11-1		
Preputial Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-25+8		
Prostate		Inflammation	Subacute, Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma Atrophy	Multiple Mild
Note: ADENOMA	TGLs = 3-7		
Note: ATROPHY	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 660

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Parathyroid Gland
Preputial Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial	Lymph Node - Mediastinal
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OBSERVATIONS

Brain		Compression	Moderate
		Hydrocephalus	Moderate
Note: COMPRESSION	TGLs = 8-1		
Note: HYDROCEPHALUS	TGLs = 8-1		
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: THE CYST MULTIFOCAL IS ON SLIDE 6.

Note: CHOLANGIOCARC TGLs = 3-21,5-23

[Degeneration TGLS = 3-21,5-23]

[Fibrosis TGLS = 3-21,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 171	TRT#: 7	SEX: Male	DAY ON TEST: 660
	DOSE: 2 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-21,5-23]

[Vacuolization Cytoplasmic TGLS = 3-21,5-23]

Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 2-25		
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: PIGMENT	TGLs = 7-1		
Note: ANGIECTASIS	TGLs = 7-1		
Note: ADENOMA	TGLs = 7-1		
Prostate		Inflammation	Subacute, Moderate
Testes	Interstit Cell	Hyperplasia	Mild
Note: [HYPERPLASIA]	TGLs = 1-7		
Thymus	Mediastinum	Schwannoma Malignant	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 384

DOSE: 2 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Skin	Stomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Gland - Medulla	Lymph Node - Mandibular
-------------------------	-------------------------

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Note: CYST MULTILOC IS ON SLIDE 6.			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Focal, Moderate
Note: TGL 1 IS ON SLIDE I. [Necrosis TGLS = 1]			
Nose		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Testes		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: HYPERPLASIA TGLs = 1-21,3-23
 [Cytomegaly TGLs = 2-22,4-24,5-25]
 [Degeneration TGLs = 1-21,3-23]
 [Fibrosis TGLs = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-21,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lymph Node	Mediastinal	Ectasia	Mild
Pancreas		Adenoma	
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple

Note: ADENOMA TGLs = 6-7

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Hyperplasia	Focal, Minimal
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: FIBROSIS TGLs = 4-21,6-23

Note: THE NEOVASCULARIZATION OF THE CYST IS ON SLIDE 23.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 4-21,6-23]
[Degeneration TGLS = 4-21,6-23]
[Necrosis TGLS = 4-21,6-23]
[Vacuolization Cytoplasmic TGLS = 4-21,6-23]

Mammary Gland

Duct

Cyst

Note: CYST TGLs = 2-8

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Marked

Pars Distalis

Pigmentation

Hemosiderin, Minimal

Note: ADENOMA TGLs = 8-1

Note: PIGMENT TGLs = 8-1

Note: ANGIECTASIS TGLs = 8-1

Preputial Gland

Carcinoma

Note: CARCINOMA TGLs = 1-8+26

Prostate

Inflammation

Subacute, Mild

Spleen

Congestion

Mild

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 687

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Necrosis	Diffuse, Moderate
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Note: LEUKEMIA MONUC	TGLs = 3-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 7

DOSE: 2 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 687

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 4-21,6-23]
[Degeneration TGLS = 4-21,6-23]
[Fibrosis TGLS = 4-21,6-23]
[Necrosis TGLS = 4-21,6-23]
[Vacuolization Cytoplasmic TGLS = 4-21,6-23]

Lung	Alveolar Epith Mediastinum	Hyperplasia Leukemia Mononuclear Leukemia Mononuclear	Focal, Mild
Note: HYPERPLASIA TGLs = 9-2			
Lymph Node	Bronchial Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Mesentery		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis Pars Distalis	Angiectasis Hyperplasia Leukemia Mononuclear Pigmentation	Mild Focal, Mild Hemosiderin, Mild
Note: HYPERPLASIA TGLs = 8-1			
Note: PIGMENT TGLs = 8-1			
Note: ANGIECTASIS TGLs = 8-1			
Note: LEUKEMIA MONUC TGLs = 8-1			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-6			
Stomach	Forestomach Glandular	Leukemia Mononuclear Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma Atrophy	Multiple Mild
Note: ATROPHY TGLs = 2-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 687

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Focal Cellular Change	
	Medulla	Pheochromocytoma Benign	
Note: [PHEOCHROM BGN] TGLs = 2-6			
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Minimal
	Hepatocyte	Degeneration	Multifocal, Minimal
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Minimal
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Minimal
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal

Note: THE CYST, MULTILOC IS ON SLIDE 23.

[Cytomegaly TGLS = 3-21,5-23,6-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 176	TRT#: 7	SEX: Male	DAY ON TEST: 735
	DOSE: 2 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 3-21,5-23,6-24]

[Fibrosis TGLS = 3-21,5-23,6-24]

[Necrosis TGLS = 3-21,5-23,6-24]

[Vacuolization Cytoplasmic TGLS = 3-21,5-23,6-24]

Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Multifocal, Mild
Note: HYPERPLASIA	TGLs = 1-7		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ANGIECTASIS	TGLs = 7-1		
Note: PIGMENT	TGLs = 7-1		
Note: ADENOMA	TGLs = 7-1		
Prostate		Inflammation	Subacute, Moderate
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:04
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 702

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5-5			
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: CHOLANGIOCARC TGLs = 7-21,9-23			
Note: INFLAMMATION TGLs = 7-21,9-23			
[Cytomegaly TGLs = 6-6+21+22+23+24]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 7

DOSE: 2 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 702

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 6-6+21+22+23+24]

[Fibrosis TGLS = 7-21,9-23]

[Necrosis TGLS = 7-21,9-23]

[Vacuolization Cytoplasmic TGLS = 7-21,9-23]

Mammary Gland

Duct

Cyst

Nose

Inflammation

Suppurative, Acute, Minimal

Pancreas

Adenoma

Multiple

Hyperplasia

Multifocal, Mild

Note: HYPERPLASIA TGLs = 4-7-1

Note: ADENOMA TGLs = 4-7-1

Pharynx

Squamous Cell Papilloma

Note: PAPILLOMA SQUA TGLs = 11-26

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Mild

Skin

Keratoacanthoma

Note: KERATOACANTHMA TGLs = 1-25

Spleen

Congestion

Mild

Hematopoietic Cell Proliferation

Minimal

Stomach

Forestomach

Hyperplasia

Mild

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

Note: ATROPHY TGLs = 3-7

Note: ADENOMA TGLs = 2-7-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 1-21,3-23]
 [Degeneration TGLS = 1-21,3-23]
 [Fibrosis TGLS = 1-21,3-23]
 [Necrosis TGLS = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Pancreas		Adenoma	
		Atrophy	Multifocal, Mild
		Hyperplasia	Focal, Mild
	Artery	Inflammation	Subacute, Marked
Note: ADENOMA	TGLs = 6-7		
Note: INFLAMMATION	TGLs = 6-7		
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstitial Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 5-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 60

DOSE: 2 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial	Lymph Node - Mediastinal
------------------------	--------------------------

OBSERVATIONS

Adrenal Gland Note: HEMORRHAGE TGLs = 1 Note: TGL 1 IS ON SLIDE 6B.	Cortex	Hemorrhage	Mild
Esophagus Note: HEMORRHAGE TGLs = 6-4		Hemorrhage	Focal, Marked
Liver Note: THE CYST MULTILOC IS ON SLIDE 21.			
Lung		Congestion Foreign Body Hemorrhage	Moderate Moderate Multifocal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 7-24]
 [Degeneration TGLS = 4-21,6-23,9-28]
 [Fibrosis TGLS = 4-21,6-23,9-28]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 180	TRT#: 7	SEX: Male	DAY ON TEST: 735
	DOSE: 2 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-21,6-23,9-28]			
[Necrosis TGLS = 4-21,6-23]			
[Vacuolization Cytoplasmic TGLS = 4-21,6-23,9-28]			
Lymph Node	Pancreatic	Ectasia	Moderate
	Pancreatic	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-26			
Note: ECTASIA TGLs = 3-26			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-27			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Adenoma	Multiple
		Hyperplasia	Multifocal, Mild
Note: ADENOMA TGLs = 2-7			
Note: HYPERPLASIA TGLs = 2-7			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Pituitary Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 9-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 1-6+21,3-23]

[Degeneration TGLS = 1-6+21,3-23]

[Fibrosis TGLS = 1-6+21,3-23]

[Necrosis TGLS = 1-6+21,3-23]

[Vacuolization Cytoplasmic TGLS = 1-6+21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Lung		Granuloma	Multiple, Mild
Lymph Node	Mandibular	Ectasia	Mild
	Pancreatic	Ectasia	Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 7-27		
Pancreas		Atrophy	Multifocal, Mild
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland	Duct	Cyst	
Prostate		Inflammation	Subacute, Minimal
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA]	TGLs = 6-26		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 8-7		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Multifocal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Biliar Tract	Fibrosis	Multifocal, Mild
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Mild
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: INFLAMMATION TGLs = 3-21,5-23			
Note: CYST TGLs = 3-21,5-23			
Note: HYPERPLASIA TGLs = 3-21,5-23			
[Metaplasia TGLS = 3-21,5-23]			
[Pigmentation TGLS = 3-21,5-23]			
Lung		Granuloma	Multiple, Mild
Note: GRANULOMA TGLs = 7-2			
Mesentery	Fat	Necrosis	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS TGLs = 2-26

Pancreas

Spleen

Testes

Note: ADENOMA TGLs = 1-7

Interstitial Cell

Hyperplasia

Hematopoietic Cell Proliferation

Adenoma

Multifocal, Moderate

Minimal

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Parathyroid Gland
Skin
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Forestomach

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Mammary Gland
Preputial Gland
Stomach - Glandular

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Nose
Salivary Glands
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Medulla

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Hyperplasia
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Fibrosis
Granuloma
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Focal, Mild
Minimal
Chronic, Moderate

Multiple
Multiple, Moderate
Mild
Multifocal, Moderate
Multiple, Minimal
Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

[Cytomegaly TGLS = 2-21,4-23]
[Fibrosis TGLS = 2-21,4-23]
[Hyperplasia TGLS = 2-21,4-23]
[Pigmentation TGLS = 2-21,4-23]
[Vacuolization Cytoplasmic TGLS = 2-21,4-23]

Pancreas
Prostate

Atrophy
Inflammation

Focal, Mild
Subacute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 183	TRT#: 7 DOSE: 2 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Congestion	Minimal
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		
Thymus		Cyst	
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 54

DOSE: 2 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Preputial Gland
Spleen
Thymus

MISSING

Adrenal Gland - Medulla

Lymph Node - Bronchial

Lymph Node - Mediastinal

OBSERVATIONS

Lung

Congestion
Foreign Body

Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Preputial Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lung
Nose
Skin
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Fibrosis
Granuloma
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Moderate

Multiple
Multiple, Moderate
Multifocal, Moderate
Multiple, Minimal
Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Minimal

Biliar Tract
Biliar Tract

Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

[Fibrosis TGLS = 1-21,3-23]
[Hyperplasia TGLS = 1-21,3-23]
[Inflammation TGLS = 1-21,3-23]
[Pigmentation TGLS = 1-21,3-23]
[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lymph Node
Mammary Gland
Pancreas
Pituitary Gland

Mediastinal
Duct

Pars Distalis

Ectasia
Cyst
Hyperplasia
Adenoma

Minimal

Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 185	TRT#: 7 DOSE: 2 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
-----------------------	----------------------------------------	-----------------------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Note: ADENOMA TGLs = 6-1			
Prostate		Inflammation	Subacute, Moderate
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mediastinal
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Skin
Thyroid Gland

MISSING

Lymph Node - Bronchial

Lymph Node - Mandibular

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Fibrosis
Granuloma
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Minimal
Chronic, Moderate
Multiple
Multiple, Moderate
Mild
Multifocal, Moderate
Multiple, Mild
Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

Note: CYST TGLs = 4-21,6-23
[Cytomegaly TGLS = 4-21,6-23]
[Fibrosis TGLS = 4-21,6-23]
[Pigmentation TGLS = 4-21,6-23]
[Vacuolization Cytoplasmic TGLS = 4-21,6-23]

Lung

Foreign Body
Infiltration Cellular
Cyst

Mild
Histiocyte, Multifocal, Mild

Mammary Gland

Duct

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 186	TRT#: 7	SEX: Male	DAY ON TEST: 735
	DOSE: 2 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST	TGLs = 1-8-1			
Pancreas			Hyperplasia	Focal, Mild
Pituitary Gland		Pars Distalis	Adenoma	
		Pars Distalis	Angiectasis	Moderate
		Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA	TGLs = 9-1			
Preputial Gland			Adenoma	
Note: ADENOMA	TGLs = 2-8			
Prostate			Inflammation	Subacute, Moderate
Spleen			Congestion	Minimal
			Hematopoietic Cell Proliferation	Minimal
Testes		Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 3-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 470

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Eye	Antr Chamber	Inflammation	Suppurative, Acute, Mild
Note: INFLAMMATION TGLs = 1			
Note: TGL 1 IS ON SLIDE LABELED J.			
Kidney		Nephropathy	Chronic, Minimal
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Mild
		Developmental Malformation	Moderate
	Biliar Tract	Fibrosis	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Mild
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: TGL 7 IS ON SLIDE V.

Note: TGL 3 AND 5 ARE ON SLIDES I AND II.

[Cyst TGLS = 7]

[Fibrosis TGLS = 3,5]

[Hyperplasia TGLS = 3,5]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 187	TRT#: 7	SEX: Male	DAY ON TEST: 470
	DOSE: 2 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 3,5]			
[Pigmentation TGLS = 3,5]			
[Vacuolization Cytoplasmic TGLS = 3,5]			
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 10			
Note: TGL 10 IS ON SLIDE 5B			
Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Preputial Gland
Stomach - Glandular
Urinary Bladder

Bone
Heart
Intestine Small - Duodenum
Lymph Node - Bronchial
Mammary Gland
Salivary Glands
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Skin
Thyroid Gland

Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Bone Marrow
Kidney
Liver

Medulla

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hyperplasia
Hyperplasia
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hemorrhage
Hepatocellular Adenoma
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Focal, Minimal
Mild
Chronic, Moderate
Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Moderate
Multifocal, Mild

Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate

Moderate
Multifocal, Mild
Multifocal, Minimal
Mild

[Cytomegaly TGLS = 3-21,4-21,6-23]
[Degeneration TGLS = 3-21,4-21,6-23]
[Fibrosis TGLS = 3-21,4-21,6-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 8-25]
[Necrosis TGLS = 3-21,4-21,6-23]
[Vacuolization Cytoplasmic TGLS = 3-21,4-21,6-23]

Lung		Leukemia Mononuclear	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Hyperplasia	Focal, Mild
Prostate		Inflammation	Subacute, Minimal
Spleen		Fibrosis	Focal, Moderate
		Leukemia Mononuclear	

Note: FIBROSIS TGLs = 2-6

Note: LEUKEMIA MONUC TGLs = 1-6

Testes	Interstit Cell	Adenoma	Multiple
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Preputial Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Prostate
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Mammary Gland
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Skin
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Mild

Multiple
Multiple, Moderate
Minimal
Multifocal, Moderate
Multiple, Minimal
Multifocal, Moderate
Nodular, Multifocal, Minimal
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

Note: FIBROSIS TGLs = 1-21,3-23
[Cytomegaly TGLS = 1-21,3-23]
[Fibrosis TGLS = 1-21,3-23]
[Hyperplasia TGLS = 1-21,3-23]
[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lung

Granuloma

Multiple, Mild

Mesentery

Fat

Necrosis

Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 189	TRT#: 7 DOSE: 2 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS	TGLs = 6-26			
Nose		Nasolacrim Dct	Fungus Inflammation Inflammation	Mild Suppurative, Acute, Mild Suppurative, Acute, Mild
Pancreas			Adenoma	
Pituitary Gland		Pars Distalis Pars Distalis Pars Distalis	Angiectasis Cyst Hyperplasia	Mild Focal, Mild
Spleen			Congestion Hematopoietic Cell Proliferation	Mild Minimal
Testes		Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 7-7			
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Thrombosis	Marked
Note: THROMBUS	TGLs = 7-8		
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Minimal
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Minimal
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 190	TRT#: 7	SEX: Male	DAY ON TEST: 735
	DOSE: 2 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Hepatocyte		Vacuolization Cytoplasmic	Mild
Note: THE NEOVASCULARIZATION OF THE CYST IS ON SLIDE 21. [Cytomegaly TGLS = 2-21,4-23] [Degeneration TGLS = 2-21,4-23] [Fibrosis TGLS = 2-21,4-23] [Hyperplasia TGLS = 2-21,4-23] [Vacuolization Cytoplasmic TGLS = 2-21,4-23]			
Lung		Granuloma	Multiple, Mild
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Ectasia	Mild
	Pancreatic	Hyperplasia	Mild
Note: ECTASIA TGLs = 6-25 Note: HYPERPLASIA TGLs = 6-25			
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7			
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 629

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Pancreas	Preputial Gland	Salivary Glands	Skin
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
Note: CATARACT	TGLs = 1-44		
Note: DEGEN	TGLs = 1-44		
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Degeneration TGLS = 3-21,5-23]
 [Fibrosis TGLS = 3-21,5-23]
 [Hyperplasia TGLS = 3-21,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 629

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-21,5-23]

[Vacuolization Cytoplasmic TGLS = 3-21,5-23]

Lymph Node	Mandibular	Hyperplasia	Moderate
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA	TGLs = 7-1		
Note: ANGIECTASIS	TGLs = 7-1		
Note: PIGMENT	TGLs = 7-1		
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Minimal
		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Moderate
Stomach	Forestomach	Inflammation	Subacute, Mild
	Forestomach	Ulcer	Moderate
	Forestomach	Adenoma	Multiple
Testes	Interstit Cell		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:04

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 421

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Prostate
Testes
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Parathyroid Gland
Salivary Glands
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Mammary Gland
Preputial Gland
Stomach - Glandular
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract
Biliar Tract
Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Basophilic Focus
Cyst
Fibrosis
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Minimal

Multiple, Mild
Multifocal, Mild
Multifocal, Mild
Chronic, Multifocal, Mild
Mild
Multifocal, Mild
Moderate

Note: TGL 8 IS ON SLIDE IV.

Note: TGL 5 AND 7 ARE ON SLIDES I AND III.

[Cyst TGLS = 9]

[Fibrosis TGLS = 5,7]

[Hyperplasia TGLS = 5,7]

[Inflammation TGLS = 5,7]

[Pigmentation TGLS = 5,7]

[Vacuolization Cytoplasmic TGLS = 8]

Nose

Nasopharyn Dct

Fungus
Fungus

Moderate
Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 421

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nasopharyn Dct

Hyperplasia

Mild

Hyperplasia

Squamous, Marked

Nasopharyn Dct

Inflammation

Suppurative, Acute, Mild

Inflammation

Suppurative, Acute, Moderate

Skin

Squamous Cell Papilloma

Note: TGL 1 IS ON SLIDE VI.

Note: PAPILLOMA SQUA TGLs = 1

Spleen

Congestion

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:04
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 660

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Parathyroid Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Diverticulum	Marked
Note: DIVERTICULUM	TGLs = 8-27		
Islets, Pancreatic		Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 3-26		
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Minimal

[Cyst TGLS = 4-21,6-23]
 [Fibrosis TGLS = 4-21,6-23]
 [Hyperplasia TGLS = 4-21,6-23]
 [Inflammation TGLS = 4-21,6-23]
 [Pigmentation TGLS = 4-21,6-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 193	TRT#: 7 DOSE: 2 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 660 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst	
Pancreas		Mixed Tumor Benign	
Note: [MIXD TUMOR BGN] TGLs = 3-26			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-25			
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 680

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Salivary Glands
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Skin
Tooth

Bone
Esophagus
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart
Kidney
 Note: NEPHROPATHY TGLs = 4-5
Liver

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Centrilobular
Hepatocyte
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Minimal
Chronic, Moderate
Multiple
Multiple, Mild
Multifocal, Mild
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Mild
Multifocal, Mild
Multifocal, Minimal
Mild

Note: INFLAMMATION TGLs = 5-21,7-23
Note: CHOLANGIOCARC TGLs = 5-21,7-23
Note: FIBROSIS TGLs = 5-21,7-23
Note: HYPERPLASIA TGLs = 5-21,7-23
Note: CYST TGLs = 5-21,7-23

Mammary Gland
Mesentery

Duct
Fat

Cyst
Necrosis

Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 680

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS	TGLs = 2-25			
Nose		Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas			Hyperplasia	Focal, Mild
Pituitary Gland		Pars Distalis	Adenoma	
		Pars Distalis	Angiectasis	Moderate
Preputial Gland		Duct	Cyst	
Prostate			Inflammation	Subacute, Mild
Spleen			Fibrosis	Focal, Mild
			Hematopoietic Cell Proliferation	Mild
Note: FIBROSIS	TGLs = 3-26			
Testes		Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7			
Thyroid Gland		C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 9-3			
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 587

DOSE: 2 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Blood Vessel	Aorta	Mineralization	Mild
Heart		Mineralization	Multifocal, Marked
Kidney	Renal Tubule	Mineralization	Multifocal, Marked
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Mild
	Biliar Tract	Fibrosis	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Mild
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: FIBROSIS TGLs = 2-21,4-23			
[Hyperplasia TGLs = 2-21,4-23]			
[Inflammation TGLs = 2-21,4-23]			
[Pigmentation TGLs = 2-21,4-23]			
[Vacuolization Cytoplasmic TGLs = 2-21,4-23]			
Lung		Congestion	Mild
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland		Inflammation	Suppurative, Acute, Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 587

DOSE: 2 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Subacute, Mild
Spleen		Atrophy	Moderate
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

DOSE: 2 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 602

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Intestine Small - Ileum	Lymph Node - Bronchial
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OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Multifocal, Moderate
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Hematopoietic Cell Proliferation	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Minimal

Note: HYPERPLASIA TGLs = 6-21,8-23

Note: FIBROSIS TGLs = 6-21,8-23

[Cytomegaly TGLs = 6-21,8-23]

[Fibrosis TGLs = 6-21,8-23]

[Metaplasia TGLs = 6-21,8-23]

Mesentery		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Moderate

Note: FOREIGN BODY TGLs = 4-27

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

DOSE: 2 MG/KG

SEX: Male

DISP: Moribund

DAY ON TEST: 602

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION	TGLs = 4-27			
Pancreas			Hyperplasia	Multifocal, Mild
Preputial Gland		Duct	Cyst	
			Inflammation	Suppurative, Acute, Focal, Moderate
Note: CYST	TGLs = 2-26			
Note: INFLAMMATION	TGLs = 2-26			
Skeletal Muscle			Inflammation	Suppurative, Acute, Mild
Note: INFLAMMATION	TGLs = 4-27			
Skin		Subcut Tiss	Fibrous Histiocytoma	
Note: [FIB HISTIOCYT]	TGLs = 1-25			
Spleen			Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 3-6			
Stomach		Forestomach	Hyperplasia	Mild
		Forestomach	Inflammation	Subacute, Mild
		Forestomach	Perforation	Marked
Note: PERFORATION	TGLs = 5-4			
Testes		Interstit Cell	Adenoma	Multiple
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Minimal
	Hepatocyte	Degeneration	Multifocal, Minimal
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Minimal
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: THE CYST, MULTILOC IS ON SLIDE 24.

Note: NEOVASCUZATION OF THE CYST IS ON SLIDE 23.

[Cytomegaly TGLS = 2-21,4-23]

[Degeneration TGLS = 2-21,4-23]

[Fibrosis TGLS = 2-21,4-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 2-21,4-23]

[Vacuolization Cytoplasmic TGLS = 2-21,4-23]

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Focal, Mild

Spleen

Congestion

Mild

Stomach

Artery, Forestomach

Inflammation

Subacute, Mild

Testes

Interstit Cell

Adenoma

Multiple

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mediastinal
Salivary Glands
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Islets, Pancreatic
Lymph Node - Mesenteric
Skin
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Bronchial
Preputial Gland
Stomach - Glandular
Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Intestine Large
Kidney
Liver

Rectum

Parasite Metazoan
Nephropathy
Basophilic Focus
Cholangiocarcinoma

Mild
Chronic, Mild

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Cyst
Cytomegaly
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Multiple
Multiple, Moderate
Mild
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Moderate

[Cytomegaly TGLS = 5-21,7-23]

[Fibrosis TGLS = 5-21,7-23]

[Hyperplasia TGLS = 5-21,7-23]

[Hyperplasia TGLS = 5-21,7-23]

[Vacuolization Cytoplasmic TGLS = 5-21,7-23]

Lymph Node

Mandibular

Ectasia

Mild

Note: ECTASIA TGLs = 1-5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 198	TRT#: 7 DOSE: 2 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 4-25		
Nose		Fungus	Moderate
		Hyperkeratosis	Focal, Mild
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Prostate		Inflammation	Subacute, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA	TGLs = 2-7		
Note: ATROPHY	TGLs = 3-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 29

DOSE: 2 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Nose
Preputial Gland
Spleen
Thymus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

OBSERVATIONS

Liver
Note: DEVELOP MALFOR TGLs = 3
Note: TGL 3 IS ON SLIDE I.

Developmental Malformation

Lung
[Foreign Body TGLS = 4-4]

Congestion
Foreign Body

Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 85

DOSE: 2 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Lymph Node - Mandibular
Nose
Preputial Gland
Spleen
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Small - Duodenum
Lymph Node - Mediastinal
Pancreas
Prostate
Stomach - Forestomach
Thyroid Gland

Bone
Esophagus
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

Bone Marrow
Heart
Kidney
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

MISSING

Lymph Node - Bronchial

AUTO PRECLUDES DIAG.

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Ileum

Intestine Small - Jejunum

OBSERVATIONS

Liver
Note: [DEVELOP MALFOR] TGLs = 1-1
Lung

Developmental Malformation

Congestion
Foreign Body

Moderate
Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 2	SEX: Female	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland	Lymph Node - Bronchial	Lymph Node - Mandibular
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OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Mild
Lung	Fat, Mediastinum	Necrosis	Multifocal, Mild
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
[Necrosis TGLS = 1-26]			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2+27]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 2 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 528
DOSE: VEHICLE CONTROL **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Brain		Compression	Mild
[Compression TGLS = 8-1]			
Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
[Cataract TGLS = 1-44]			
[Degeneration TGLS = 1-44]			
Kidney		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Proliferation	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2-8]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 7-1]			
[Angiectasis TGLS = 7-1]			
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 2 DOSE: VEHICLE CONTROL	SEX: Female DISP: Moribund	DAY ON TEST: 556 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Blood		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-61]			
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
Note: PROLIFERATION TGLs = 6-21+22+23+24			
[Leukemia Mononuclear TGLS = 6-21+22+23+24]			
[Necrosis TGLS = 6-21+22+23+24]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2-8]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLS = 12-1]			
[Angiectasis TGLS = 12-1]			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3

TRT#: 2

SEX: Female

DAY ON TEST: 556

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 5-2-1]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 4	TRT#: 2	SEX: Female	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Clitoral Gland		Hyperplasia	Moderate
Note: [HYPERPLASIA] TGLs = 2-15			
Harderian Gland		Inflammation	Chronic, Focal, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-10]			
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Adenoma	
Uterus		Abscess	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 5 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 729
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Liver		Basophilic Focus	
		Eosinophilic Focus	
Lung		Granuloma	Multiple, Minimal
		Sarcoma Stromal	Metastatic (Uterus)
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 1-25]			
Pancreas		Atrophy	Multifocal, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Thymus		Cyst	
Uterus	Cervix	Cyst	Multiple
		Polyp Stromal	
		Sarcoma Stromal	

Note: SARC STROMAL TGLs = 2-26,3-27

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 6 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 729
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Liver		Basophilic Focus	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1-25]			
[Fibroadenoma TGLS = 1-25]			
Pancreas		Atrophy	Focal, Mild
		Hyperplasia	Multifocal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7	TRT#: 2 DOSE: VEHICLE CONTROL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Clitoral Gland	Lymph Node - Bronchial
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OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Harderian Gland		Inflammation	Chronic, Focal, Mild
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 5-10]			
[Fibroadenoma TGLS = 6-25]			
Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ANGIECTASIS TGLs = 8-1			
[Adenoma TGLS = 8-1]			
[Angiectasis TGLS = 8-1]			
Uterus		Cyst	
[Cyst TGLS = 7-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 7

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Liver		Basophilic Focus	
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
[Necrosis TGLS = 1-25]			
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Focal, Minimal
[Carcinoma TGLS = 6-26]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9	TRT#: 2 DOSE: VEHICLE CONTROL	SEX: Female DISP: Dead	DAY ON TEST: 684 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Kidney	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Esophagus	Islets, Pancreatic	Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Liver		Basophilic Focus	
		Eosinophilic Focus	
		Necrosis	Focal, Mild
	Biliar Tract	Proliferation	Mild
		Sarcoma	Metastatic (Tissue Nos)
Note: METASTATIC LESION ON SLIDE 21.			
Lung		Sarcoma	Metastatic (Tissue Nos)
Ovary		Cyst	
[Cyst TGLS = 1-9]			
Tissue NOS	Abdominal	Sarcoma	
Note: [SARCOMA] TGLs = 2-2			
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 10	TRT#: 2	SEX: Female	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	
		Developmental Malformation	
[Developmental Malformation TGLS = 6-25]			
Lung		Alveolar/Bronchiolar Carcinoma	
		Granuloma	Multiple, Mild
[Alveolar/Bronchiolar Carcinoma TGLS = 7-4-1]			
[Granuloma TGLS = 8-4]			
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Uterus		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 11	TRT#: 2	SEX: Female	DAY ON TEST: 688
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial	Lymph Node - Mesenteric
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OBSERVATIONS

Clitoral Gland		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1-15]			
[Fibroadenoma TGLS = 2-25]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 7-1]			
[Angiectasis TGLS = 7-1]			
Stomach	Forestomach	Ulcer	Moderate
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 2

SEX: Female

DAY ON TEST: 605

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Liver	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
	[Leukemia Mononuclear TGLS = 4-5+21+22+23+24]		
	[Necrosis TGLS = 4-5+21+22+23+24]		
	[Proliferation TGLS = 4-5+21+22+23+24]		
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 1-10]		
Ovary		Cyst	
	[Cyst TGLS = 2-9]		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	[Adenoma TGLS = 9-1]		
	[Angiectasis TGLS = 9-1]		
Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-2]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 2

SEX: Female

DAY ON TEST: 605

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 13	TRT#: 2	SEX: Female	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Liver		Basophilic Focus	
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-25]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
[Adenoma TGLS = 8-1]			
[Angiectasis TGLS = 8-1]			
[Cyst TGLS = 8-1]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node - Bronchial	Lymph Node - Mesenteric
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OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Biliar Tract	Proliferation	Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 5-10]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 6-1]			
[Angiectasis TGLS = 6-1]			
[Pigmentation TGLS = 6-1]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ANGIECTASIS TGLs = 6-1 [Adenoma TGLS = 6-1] [Angiectasis TGLS = 6-1]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 2

SEX: Female

DAY ON TEST: 688

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Complex	
[Pheochromocytoma Complex TGLS = 4-8]			
Brain		Compression	Mild
Note: COMPRESSION TGLs = 11-1			
Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-10]			
[Fibroadenoma TGLS = 2-25]			
Ovary		Cyst	
[Cyst TGLS = 3-9]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA TGLs = 10-1			
[Adenoma TGLS = 10-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 17

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Developmental Malformation	
		Eosinophilic Focus	
Note: [DEVELOP MALFOR] TGLs = 6-25			
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
Lymph Node	Mediastinal	Congestion	Mild
[Congestion TGLS = 9-2]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 7-10]			
Ovary		Cyst	
[Cyst TGLS = 5-9]			
Pancreas		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 8-1]			
[Angiectasis TGLS = 8-1]			
[Pigmentation TGLS = 8-1]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 2

SEX: Female

DAY ON TEST: 470

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Liver		Basophilic Focus	
Lung		Congestion	Mild
[Congestion TGLS = 2-4]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ANGIECTASIS TGLs = 3-1			
[Adenoma TGLS = 3-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	
Lung	Fat, Mediastinum	Necrosis	Multifocal, Mild
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Multifocal, Marked
[Necrosis TGLS = 5-25,6-26]			
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
[Angiectasis TGLS = 7-1]			
[Hyperplasia TGLS = 7-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 2

SEX: Female

DAY ON TEST: 714

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lymph Node - Bronchial	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Brain		Degeneration	Multifocal, Marked
Liver		Basophilic Focus	
		Developmental Malformation	Mild
		Eosinophilic Focus	
	Centrilobular	Leukemia Mononuclear	
	[Developmental Malformation TGLS = 7-25]	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 3-21,4-22,5-23,6-24]		
	[Necrosis TGLS = 3-21,4-22,5-23,6-24]		
Lung		Granuloma	Multiple, Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-2		
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 1-10]		
Mesentery	Fat	Necrosis	Focal, Marked
	[Necrosis TGLS = 2-26]		
Pancreas	Acinus	Atrophy	Minimal
	Acinus	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 2

SEX: Female

DAY ON TEST: 714

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland Note: ADENOMA TGLs = 8-1	Pars Distalis	Adenoma	
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Minimal
Uterus		Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 21 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 730
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Focal, Mild
Bone	Cranium	Hypertrophy	Focal, Mild
	Femur	Hypertrophy	Focal, Mild
Note: HYPERTROPHY	TGLs = 5-25,7-26		
Liver		Basophilic Focus	
		Eosinophilic Focus	
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 6-9		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 22	TRT#: 2	SEX: Female	DAY ON TEST: 730
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Minimal
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
Ovary		Cyst	
Note: CYST	TGLs = 5-9		
Pituitary Gland	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Adenoma	
Uterus		Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 23

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Ovary
Skin
Thymus
Uterus

Bone
Esophagus
Intestine Large - Rectum
Kidney
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland
Islets, Pancreatic
Liver

Cortex

Focal Cellular Change
Adenoma
Basophilic Focus
Granuloma
Hyperplasia

Pancreas

Multiple, Mild
Focal, Mild

Note: HYPERPLASIA IS ON SLIDE #24.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 2

SEX: Female

DAY ON TEST: 695

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Blood		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-61]			
Heart		Leukemia Mononuclear	
Liver		Basophilic Focus	
		Eosinophilic Focus	
	Centrilobular	Leukemia Mononuclear	
	Biliar Tract	Necrosis	Mild
[Leukemia Mononuclear TGLS = 4-21,5-22,6-23,7-24,8-25]		Proliferation	Moderate
[Necrosis TGLS = 4-21,5-22,6-23,7-24,8-25]			
[Proliferation TGLS = 4-21,5-22,6-23,7-24,8-25]			
Lung	Mediastinum	Leukemia Mononuclear	
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 16-2			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 3-15]			
[Fibroadenoma TGLS = 2-26+2]			
Mesentery	Fat	Necrosis	Multifocal, Marked
[Necrosis TGLS = 9-27,10-28]			
Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 24	TRT#: 2 DOSE: VEHICLE CONTROL	SEX: Female DISP: Moribund	DAY ON TEST: 695 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Cyst	Mild
[Adenoma TGLS = 12-1] [Angiectasis TGLS = 12-1] [Cyst TGLS = 12-1]			
Spleen		Fibrosis Leukemia Mononuclear	Focal, Moderate
[Fibrosis TGLS = 14-2-1]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Minimal
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 25

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Clitoral Gland		Adenoma Inflammation	Suppurative, Acute, Focal, Moderate
Note: [ADENOMA] TGLs = 1-15			
Note: [INFLAMMATION] TGLs = 1-15			
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus Granuloma	Multiple, Minimal
Note: [BASOPH FOCUS] TGLs = 6-25			
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Blood Vessel	Aorta	Inflammation	Chronic, Moderate
Note: INFLAMMATION IS ON SLIDES 2 & 4.			
Liver		Basophilic Focus	
	Serosa	Inflammation	Chronic, Mild
Mammary Gland	Duct	Cyst	
Mesentery		Inflammation	Chronic, Diffuse, Moderate
	Fat	Necrosis	Focal, Marked
[Necrosis TGLS = 5-26]			
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLS = 6-1]			
[Angiectasis TGLS = 6-1]			
Thymus	Fat, Mediastinum	Inflammation	Chronic, Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 27

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Clitoral Gland	Lymph Node - Mandibular
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OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Cortex	Vacuolization Cytoplasmic	Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Developmental Malformation	
		Granuloma	Multiple, Mild
	[Developmental Malformation TGLS = 5-25]		
Mammary Gland		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 6-26,7-27		
Ovary		Cyst	
Pancreas		Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Kidney
Nose
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Forestomach
Trachea

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone	Cranium	Hypertrophy	Focal, Moderate
Note: HYPERTROPHY TGLs = 1-11+26,9-27			
Clitoral Gland		Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 8-15			
Liver		Basophilic Focus Eosinophilic Focus	
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 7-10]			
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 10-1]			
[Angiectasis TGLS = 10-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 29

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Cyst Multilocular	
		Nephropathy	Chronic, Mild
[Cyst Multilocular TGLS = 8-7-1]			
Liver		Basophilic Focus	
		Eosinophilic Focus	
		Granuloma	Multiple, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 6-26+26-1]			
Ovary		Cyst	
[Cyst TGLS = 7-9]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Intestine Large	Cecum	Parasite Metazoan	Mild
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Multifocal, Mild
Uterus	Cervix	Hypertrophy	Mild
[Hypertrophy TGLS = 1-9]			
Vagina		Polyp	
[Polyp TGLS = 2-25]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 31	TRT#: 2	SEX: Female	DAY ON TEST: 730
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Liver
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Intestine Large	Cecum	Parasite Metazoan	Mild
Mammary Gland	Duct	Cyst	
Ovary		Cyst	
[Cyst TGLS = 1-9]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Spleen		Congestion	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 32

TRT#: 2

SEX: Female

DAY ON TEST: 659

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 2-25			
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
	Centrilobular	Necrosis	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-10]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA TGLs = 4-1			
[Adenoma TGLS = 4-1]			
Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 33

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung		Granuloma	Multiple, Mild
	Alveolar Epith	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 7-4]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 1-26]			
Mesentery	Fat	Necrosis	Focal, Marked
[Necrosis TGLS = 2-25]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Mediastinal	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
Liver		Basophilic Focus	
		Developmental Malformation	Mild
Note: DEVELOP MALFOR TGLs = 6-25			
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
Uterus		Hydrometra	Mild
		Hyperplasia	Cystic, Mild
		Polyp Stromal	

Note: POLYP STROMAL TGLs = 1-9

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 2

SEX: Female

DAY ON TEST: 687

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Intestine Large - Rectum	Intestine Small - Duodenum
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	Multiple
Bone Marrow		Leukemia Mononuclear	
Liver		Eosinophilic Focus	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
	[Leukemia Mononuclear TGLS = 6-21,7-22,8-23,9-24]		
	[Necrosis TGLS = 6-21,7-22,8-23,9-24]		
	[Proliferation TGLS = 6-21,7-22,8-23,9-24]		
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 1-10]		
Mesentery	Fat	Necrosis	Focal, Marked
	[Necrosis TGLS = 2-25]		
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 35	TRT#: 2	SEX: Female	DAY ON TEST: 687
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 10-1]		
[Hyperplasia TGLS = 10-1]		
Spleen		Leukemia Mononuclear
[Leukemia Mononuclear TGLS = 5-2-1]		
Uterus	Cervix	Cyst

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 36

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
		Developmental Malformation	Mild
		Eosinophilic Focus	
Note: DEVELOP MALFOR TGLs = 10-27			
Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 1-8			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
Uterus		Hydrometra	Moderate
		Polyp Stromal	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 37	TRT#: 2	SEX: Female	DAY ON TEST: 537
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Uterus	

MISSING

Clitoral Gland	Urinary Bladder
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OBSERVATIONS

Adrenal Gland	Cortex	Necrosis	Diffuse, Marked
	Medulla	Necrosis	Diffuse, Marked
Liver		Basophilic Focus	
Lung		Granuloma	Multiple, Minimal
Spleen		Congestion	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 38

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Mediastinal

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Developmental Malformation	Mild
		Eosinophilic Focus	
[Developmental Malformation TGLS = 10-26]			
Lung		Foreign Body	Mild
		Granuloma	Multiple, Mild
	Alveolar Epith	Hyperplasia	Multifocal, Moderate
		Infiltration Cellular	Histiocyte, Multifocal, Mild
Note: HYPERPLASIA TGLs = 7-2			
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-25]			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 8-1			
[Angiectasis TGLS = 8-1]			
[Cyst TGLS = 8-1]			
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Vagina

Polyp

[Polyp TGLS = 6-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 2

SEX: Female

DAY ON TEST: 605

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Ovary
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Eye Note: INFLAMMATION TGLs = 11-26		Inflammation	Subacute, Marked
Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland Note: SQUAM CEL CARC TGLs = 10-26		Squamous Cell Carcinoma	Metastatic (Pharynx)
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
Lymph Node	Mandibular	Hyperplasia	Mild
	Mandibular	Inflammation	Suppurative, Acute, Mild
Mammary Gland Note: CYST TGLs = 2-8	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Atrophy	Focal, Mild
Pharynx Note: SQUAM CEL CARC TGLs = 9-9-1		Squamous Cell Carcinoma	
Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA TGLs = 7-1 [Adenoma TGLS = 7-1] [Angiectasis TGLS = 7-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 39

TRT#: 2

SEX: Female

DAY ON TEST: 605

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin

Foreign Body

Mild

Inflammation

Granulomatous, Focal, Moderate

Note: FOREIGN BODY TGLs = 1-25

[Foreign Body TGLS = 1-25]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
		Developmental Malformation	Mild
[Developmental Malformation TGLS = 9-26]			
Lymph Node	Mandibular	Ectasia	Moderate
[Ectasia TGLS = 2-5]			
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Spleen		Hematopoietic Cell Proliferation	Mild
Zymbal's Gland		Carcinoma	
Note: [CARCINOMA] TGLs = 1-25			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 2

SEX: Female

DAY ON TEST: 666

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
Note: [LEUKEMIA MONUC] TGLs = 7,11-21+22+23+24+25			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
[Leukemia Mononuclear TGLS = 13-27]			
[Leukemia Mononuclear TGLS = 15-28]			
[Leukemia Mononuclear TGLS = 14-3]			
[Leukemia Mononuclear TGLS = 2-5]			
Mammary Gland	Duct	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 41	TRT#: 2	SEX: Female	DAY ON TEST: 666
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 1-8]			
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
	Pars Intermed	Leukemia Mononuclear	
	Pars Nervosa	Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 16-1			
Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 5-26]			
[Leukemia Mononuclear TGLS = 4-6]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 42	TRT#: 2	SEX: Female	DAY ON TEST: 655
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Clitoral Gland	Lymph Node - Bronchial
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OBSERVATIONS

Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	
		Eosinophilic Focus	
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLS = 7-1]			
[Angiectasis TGLS = 7-1]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-25]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 43	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
		Eosinophilic Focus	
Lung		Granuloma	Multiple, Mild
	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Histiocyte, Focal, Mild
		Pigmentation	Cholesterol, Focal, Mild
Note: PIGMENT	TGLs = 6-2		
[Hyperplasia TGLS = 6-2]			
[Infiltration Cellular TGLS = 6-2]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 5-8]			
Pituitary Gland	Pars Distalis	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 44	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Lymph Node - Bronchial	Lymph Node - Mandibular
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OBSERVATIONS

Liver		Basophilic Focus	
		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 5-26]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 2

SEX: Female

DAY ON TEST: 665

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mediastinal	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Uterus	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Diffuse, Moderate
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Moderate
		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
	[Leukemia Mononuclear TGLS = 5-6+21+22+23+24+25]		
	[Necrosis TGLS = 5-6+21+22+23+24+25]		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 13-5.1]		
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
	[Cyst TGLS = 1-8]		
	[Fibroadenoma TGLS = 2-26]		
Nose	Nasolacrim Dct	Inflammation	Subacute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 45	TRT#: 2	SEX: Female	DAY ON TEST: 665
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spinal Cord		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
Stomach	Forestomach	Edema	Diffuse, Mild
	Forestomach	Leukemia Mononuclear	
	Forestomach	Ulcer	Marked
	[Edema TGLS = 15-4]		
	[Leukemia Mononuclear TGLS = 11-4]		
	[Ulcer TGLS = 11-4]		
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 46

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland	Lymph Node - Bronchial
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OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
	Cortex	Vacuolization Cytoplasmic	Multifocal, Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Eosinophilic Focus	
		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 6-8]			
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

MISSING

Lymph Node - Bronchial	Parathyroid Gland
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OBSERVATIONS

Clitoral Gland		Adenoma Inflammation	Suppurative, Acute, Focal, Moderate
Note: INFLAMMATION TGLs = 5-8 [Adenoma TGLS = 5-8]			
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus Developmental Malformation Eosinophilic Focus	
Mammary Gland	Duct	Cyst	Focal, Mild
Pancreas		Atrophy	
Pituitary Gland	Pars Distalis	Adenoma	Moderate
	Pars Distalis	Angiectasis	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 48

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Intestine Large - Cecum	Parathyroid Gland
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OBSERVATIONS

Liver		Basophilic Focus	
		Eosinophilic Focus	
		Granuloma	Multiple, Minimal
Mammary Gland		Adenocarcinoma	
	Duct	Cyst	
		Fibroadenoma	
Note: CYST	TGLs = 5-25+8		
[Adenocarcinoma TGLS = 6-26]			
[Fibroadenoma TGLS = 5-25]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 7-1]			
[Angiectasis TGLS = 7-1]			
[Pigmentation TGLS = 7-1]			
Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Eosinophilic Focus	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
		[Cyst TGLS = 1-8]	
		[Fibroadenoma TGLS = 2-25]	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 50	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Angiectasis	Mild
Liver		Basophilic Focus	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 5-8]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Uterus		Inflammation	Suppurative, Acute, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 51

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	Multiple
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 51	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 8 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 7-25,8-27,9-28
 Note: CHOLANGIOCARC TGLs = 3-6+21,4-22,5-23,6-24,7-25
 Note: CYST MULTILOC IS ON SLIDE 24.
 [Cytomegaly TGLs = 7-25,8-27,9-28]
 [Fibrosis TGLs = 3-6+21,4-22,5-23,6-24]
 [Hyperplasia TGLs = 3-6+21,4-22,5-23,6-24]
 [Hyperplasia TGLs = 7-25,8-27,9-28]
 [Inflammation TGLs = 3-6+21,4-22,5-23,6-24,7-25]
 [Necrosis TGLs = 3-6+21,4-22,5-23,6-24]
 [Pigmentation TGLs = 7-25,8-27,9-28]
 [Vacuolization Cytoplasmic TGLs = 3-6+21,4-22,5-23,6-24]

Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-27			
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6			
Urinary Bladder	Transit Epithe	Papilloma	
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 52

TRT#: 4

SEX: Female

DAY ON TEST: 644

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mediastinal
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Mild
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hemorrhage	Multifocal, Mild
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 644 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Kupffer Cell Hepatocyte	Pigmentation Vacuolization Cytoplasmic	Multifocal, Mild Moderate
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Note: [HEPATOCLR ADEN] TGLs = 10-6
 [Degeneration TGLS = 6-6+21,7-22,8-23,9-24,10-25]
 [Fibrosis TGLS = 6-6+21,7-22,8-23,9-24,10-25]
 [Necrosis TGLS = 6-6+21,7-22,8-23,9-24,10-25]
 [Vacuolization Cytoplasmic TGLS = 6-6+21,7-22,8-23,9-24,10-25]

Lung Alveolar Epith	Granuloma Hyperplasia Infiltration Cellular Leukemia Mononuclear Pigmentation	Multiple, Mild Focal, Mild Histiocyte, Multifocal, Mild Cholesterol, Multifocal, Mild
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Lymph Node Pancreatic Mandibular Mesenteric Pancreatic	Ectasia Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	Moderate
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Note: ECTASIA TGLs = 4-26
 Note: LEUKEMIA MONUC TGLs = 4-26

Mammary Gland Mesentery Pituitary Gland Spleen	Duct Pars Distalis Pars Distalis Cyst Leukemia Mononuclear Hyperplasia Leukemia Mononuclear Fibrosis Leukemia Mononuclear	Focal, Mild Focal, Mild
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Note: FIBROSIS TGLs = 4-6-1
 Note: LEUKEMIA MONUC TGLs = 3-6-1

Thyroid Gland Uterus	Follicle Cyst Polyp Stromal	
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PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 53

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal	Nose
Ovary	Pancreas	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial	Lymph Node - Mesenteric	Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Multifocal, Mild
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 4-24,5-25+25-1]
 [Degeneration TGLS = 4-24,5-25+25-1]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 53

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 1-21+21-1,2-22,3-23]

[Hyperplasia TGLS = 4-24,5-25+25-1]

[Hyperplasia TGLS = 1-21,2-22,3-23]

[Inflammation TGLS = 1-21+21-1,2-22,3-23,4-24]

[Necrosis TGLS = 1-6+21,5-25+25-1]

[Pigmentation TGLS = 1-21+21-1,2-22,3-23,4-24]

[Vacuolization Cytoplasmic TGLS = 1-21,2-22,3-23]

Mammary Gland

Duct

Cyst

Pituitary Gland

Pars Distalis

Cyst

Pars Distalis

Hyperplasia

Focal, Mild

Spleen

Congestion

Mild

Hematopoietic Cell Proliferation

Mild

Note: HEMA CELL PROL TGLs = 6-6

Note: CONGESTION TGLs = 6-6

Uterus

Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 54

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

[Cytomegaly TGLS = 4-23,5-24,6-25]

[Degeneration TGLS = 4-23,5-24,6-25]

[Fibrosis TGLS = 1-6+21,2-21,3-22]

[Hyperplasia TGLS = 4-23,5-24,6-25]

[Hyperplasia TGLS = 1-6+21,2-21,3-22]

[Inflammation TGLS = 1-6+21,2-21,3-22,4-23,5-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-6+21,2-21,3-22,5-24,6-25]

[Pigmentation TGLS = 1-6+21,2-21,3-22,4-23,5-24]

[Vacuolization Cytoplasmic TGLS = 1-6+21,2-21,3-22]

Lymph Node	Pancreatic	Ectasia	Marked
Note: ECTASIA	TGLs = 7-7		
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ANGIECTASIS	TGLs = 8-1		
Note: HYPERPLASIA	TGLs = 8-1		
Note: ADENOMA	TGLs = 8-1		
[Hyperplasia TGLS = 8-1]			
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Hyperplasia	Squamous, Mild
	Forestomach	Inflammation	Subacute, Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 4

SEX: Female

DAY ON TEST: 596

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Clitoral Gland	Lymph Node - Bronchial
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Nephropathy	Chronic, Marked
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Degeneration TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Fibrosis TGLS = 7-6+21,8-22,9-23,10-24,11-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 4

SEX: Female

DAY ON TEST: 596

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 12-6+21+22+25]

[Hyperplasia TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Necrosis TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Vacuolization Cytoplasmic TGLS = 7-6+21,8-22,11-25]

Lung

Leukemia Mononuclear

Fat, Mediastinum

Necrosis

Multifocal, Moderate

Note: NECROSIS TGLs = 13-29

Lymph Node

Pancreatic

Ectasia

Moderate

Mandibular

Leukemia Mononuclear

Mediastinal

Leukemia Mononuclear

Mesenteric

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Note: ECTASIA TGLs = 4-27

Note: LEUKEMIA MONUC TGLs = 4-27

Mammary Gland

Duct

Cyst

Note: CYST TGLs = 2-8

Ovary

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Mild

Pars Distalis

Leukemia Mononuclear

Note: ADENOMA TGLs = 14-1

Note: LEUKEMIA MONUC TGLs = 14-1

Note: ANGIECTASIS TGLs = 14-1

Spleen

Leukemia Mononuclear

Necrosis

Focal, Marked

Thrombosis

Note: LEUKEMIA MONUC TGLs = 5-6

Note: NECROSIS TGLs = 6-28

Note: THROMBUS TGLs = 6-28

Thymus

Leukemia Mononuclear

Uterus

Polyp Stromal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 4

SEX: Female

DAY ON TEST: 596

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: POLYP STROMAL TGLs = 3-26

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 4

SEX: Female

DAY ON TEST: 598

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 5-29+6			
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
[Cytomegaly TGLS = 6-6+21,8-23,9-24,10-25,11-30]			
[Degeneration TGLS = 9-24,10-25,11-30]			
[Fibrosis TGLS = 6-6+21,8-23,9-24,10-25,11-30]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 56	TRT#: 4	SEX: Female	DAY ON TEST: 598
	DOSE: 8 MG/KG	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 6-6+21,8-23,9-24,10-25]
[Hyperplasia TGLS = 6-6+21,8-23,9-24,10-25]
[Necrosis TGLS = 6-6+21,8-23,9-24,10-25,11-30]
[Vacuolization Cytoplasmic TGLS = 6-6+21,7-22,8-23]

Lung		Congestion	Mild
Lymph Node	Pancreatic	Ectasia	Moderate
Note: ECTASIA	TGLs = 4-28		
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
Note: CYST	TGLs = 1-8		
Note: FIBROADENOMA	TGLs = 2-26,3-27		
Pancreas		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 57 TRT#: 4 SEX: Female DAY ON TEST: 665
DOSE: 8 MG/KG DISP: Dead HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Fibrosis TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Hyperplasia TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Hyperplasia TGLS = 7-6+21,8-22,9-23,10-24,11-25]

[Necrosis TGLS = 7-6+21,8-22,9-23,10-24,11-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 57	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Dead	DAY ON TEST: 665 HISTO:
----------------------	----------------------------------------	-----------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 7-6+21,8-22,11-25]

Lymph Node Note: ECTASIA TGLs = 5-28	Pancreatic	Ectasia	Mild
Mammary Gland Note: FIBROADENOMA TGLs = 1-26		Fibroadenoma	
Ovary Note: CYST TGLs = 2-7-1		Cyst	
Pituitary Gland Note: HYPERPLASIA TGLs = 12-1	Pars Distalis	Hyperplasia	Focal, Mild
Spleen Note: HEMA CELL PROL TGLs = 6-6		Hematopoietic Cell Proliferation	Mild
Uterus Note: [POLYP STROMAL] TGLs = 3-7+27		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
		Developmental Malformation	Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 3-6+21,4-22,5-23,6-24,9-25]

[Degeneration TGLS = 3-6+21,4-22,5-23,6-24,9-25]

[Fibrosis TGLS = 3-6+21,4-22,5-23,6-24,9-25]

[Hyperplasia TGLS = 8-25]

[Hyperplasia TGLS = 2-6+21,4-22,5-23,6-24,10-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 58	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 8 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 2-6+21,4-22,5-23,6-24,10-25]

[Vacuolization Cytoplasmic TGLS = 3-6+21,4-22,7-24,9-25]

Lung		Granuloma	Multiple, Minimal
	Fat, Mediastinum	Necrosis	Multifocal, Mild
Lymph Node	Pancreatic	Ectasia	Moderate
Note: ECTASIA	TGLs = 1-7-1		
Mammary Gland	Duct	Cyst	
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 59

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Clitoral Gland	Duct	Cyst	
		Inflammation	Suppurative, Acute, Focal, Moderate
Note: INFLAMMATION TGLs = 1-8			
Note: CYST TGLs = 1-8			
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 6-24,7-25,8-27]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 6-24,7-25,8-27]

[Fibrosis TGLS = 3-6+21,4-22,5-23]

[Hyperplasia TGLS = 3-6+21,4-22,5-23]

[Hyperplasia TGLS = 6-24,7-25,8-27]

[Inflammation TGLS = 3-6+21,4-22,5-23,6-24]

[Necrosis TGLS = 3-6+21,4-22,7-25,8-27]

[Pigmentation TGLS = 3-6+21,4-22,5-23,6-24]

[Vacuolization Cytoplasmic TGLS = 3-6+21,4-22,5-23]

Mammary Gland

Duct

Cyst

Mesentery

Mineralization

Focal, Mild

Fat

Necrosis

Focal, Marked

Note: NECROSIS TGLs = 2-26

Note: MINERALIZATION TGLs = 2-26

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Cyst

Pars Distalis

Hyperplasia

Focal, Mild

Spleen

Congestion

Mild

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 60

TRT#: 4

SEX: Female

DAY ON TEST: 613

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: NEOVASCUZATION OF CYST IS ON SLIDES 6,22,23 AND 24.

Note: FIBROSIS TGLs = 2-6+21,3-26,4-22,5-23,6-24

[Cytomegaly TGLs = 2-21,3-26,7-25]

[Degeneration TGLs = 2-6+21,3-26,4-22,5-23,6-24]

[Fibrosis TGLs = 2-6+21,3-26,4-22,5-23,6-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 60	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 613 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 2-6+21,3-26,4-22,5-23,6-24]

[Vacuolization Cytoplasmic TGLS = 2-6+21,3-26,4-22,5-23,6-24]

Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 8-1			
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 1-6			
Note: CONGESTION TGLs = 1-6			
Stomach	Forestomach	Inflammation	Subacute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 61

TRT#: 4

SEX: Female

DAY ON TEST: 532

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 1-26			
Heart		Cardiomyopathy	Moderate
		Mineralization	Multifocal, Marked
Kidney	Renal Tubule	Mineralization	Multifocal, Moderate
	Renal Tubule	Necrosis	Multifocal, Moderate
		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLs = 5-24,6-25]
 [Degeneration TGLs = 7-5,2-21,3-22]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 4

SEX: Female

DAY ON TEST: 532

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 2-5+21,3-22]

[Hyperplasia TGLS = 2-5+21,3-22]

[Hyperplasia TGLS = 2-5+21,3-22]

[Necrosis TGLS = 4-23,5-24,6-25]

[Pigmentation TGLS = 2-5+21,3-22]

[Vacuolization Cytoplasmic TGLS = 2-5+21,3-22]

Lung

Congestion

Mild

Stomach

Glandular

Mineralization

Multifocal, Moderate

Thyroid Gland

Follicle

Cyst

Uterus

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Thymus
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Skin
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Pancreas
Stomach - Glandular
Urinary Bladder

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Heart
Kidney
Note: NEPHROPATHY TGLs = 8-5
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Marked
Multiple
Multiple, Marked
Moderate
Multifocal, Moderate
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Multifocal, Mild
Marked

[Cytomegaly TGLS = 1-6+21,2-22,3-23,4-24]
[Degeneration TGLS = 1-6+21,2-22,3-23,4-24]
[Fibrosis TGLS = 1-6+21,2-22,3-23,4-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 62	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 8 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-6+21,3-23,4-24]

[Necrosis TGLS = 1-6+21,3-23,4-24]

[Vacuolization Cytoplasmic TGLS = 1-6+21,2-22,4-24,5-25]

Lymph Node	Mediastinal	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 6-8		
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 7-26		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Erosion	Mild
	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
	Forestomach	Ulcer	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Brain

Clitoral Gland

Esophagus

Intestine Large - Cecum

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mandibular

Lymph Node - Mediastinal

Lymph Node - Mesenteric

Nose

Pancreas

Salivary Glands

Skin

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow

Hyperplasia

Mild

Heart

Cardiomyopathy

Mild

Intestine Large

Colon

Parasite Metazoan

Mild

Kidney

Nephropathy

Chronic, Marked

Liver

Cholangiocarcinoma

Multiple

Cyst Multilocular

Hepatocyte

Cytomegaly

Moderate

Hepatocyte

Degeneration

Multifocal, Mild

Biliar Tract

Fibrosis

Multifocal, Marked

Biliar Tract

Hyperplasia

Multifocal, Marked

Hepatocyte

Hyperplasia

Nodular, Multifocal, Marked

Biliar Tract

Inflammation

Chronic, Multifocal, Marked

Leukemia Mononuclear

Biliar Tract

Metaplasia

Marked

Hepatocyte

Necrosis

Multifocal, Mild

Kupffer Cell

Pigmentation

Multifocal, Mild

Hepatocyte

Vacuolization Cytoplasmic

Marked

Note: FIBROSIS TGLs = 1-6+21,2-22,3-23,4-24,7-25

Note: LEUKEMIA MONUC TGLs = 9-6+21+22+23+24+25

Note: HYPERPLASIA TGLs = 1-6+21,2-22,3-23,4-24,7-25

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST MULTILOC IS ON SLIDE 22.

[Cytomegaly TGLS = 1-6+21,2-22,3-23,4-24,7-25]

[Degeneration TGLS = 1-6+21,2-22,3-23,4-24,7-25]

[Fibrosis TGLS = 1-6+21,2-22,3-23,4-24,7-25]

[Vacuolization Cytoplasmic TGLS = 1-6+21,2-22,3-23,4-24,7-25]

Mammary Gland

Duct

Cyst

Fibroadenoma

Note: FIBROADENOMA TGLs = 5-26

Mesentery

Fat

Necrosis

Focal, Marked

Note: NECROSIS TGLs = 6-27

Ovary

Cyst

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Angiectasis

Moderate

Spleen

Congestion

Moderate

Leukemia Mononuclear

Stomach

Forestomach

Hyperplasia

Mild

Forestomach

Inflammation

Subacute, Mild

Forestomach

Ulcer

Mild

Uterus

Cervix

Cyst

Note: CYST TGLs = 8-7

Note: CYST TGLs = 8-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 4

SEX: Female

DAY ON TEST: 143

DOSE: 8 MG/KG

DISP: Dosing Accident

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
 Brain
 Intestine Large - Colon
 Intestine Small - Jejunum
 Lymph Node - Mandibular
 Nose
 Pituitary Gland
 Stomach - Forestomach
 Tongue

Adrenal Gland - Medulla
 Clitoral Gland
 Intestine Large - Rectum
 Islets, Pancreatic
 Lymph Node - Mediastinal
 Ovary
 Salivary Glands
 Stomach - Glandular
 Trachea

Bone
 Esophagus
 Intestine Small - Duodenum
 Kidney
 Lymph Node - Mesenteric
 Pancreas
 Skin
 Thymus
 Urinary Bladder

Bone Marrow
 Heart
 Intestine Small - Ileum
 Lymph Node - Bronchial
 Mammary Gland
 Parathyroid Gland
 Spleen
 Thyroid Gland
 Uterus

MISSING

Intestine Large - Cecum

OBSERVATIONS

Liver

Hepatocyte

Cholangiocarcinoma
 Cytomegaly
 Developmental Malformation
 Fibrosis
 Hyperplasia
 Inflammation
 Metaplasia
 Necrosis

Mild

Biliar Tract
 Biliar Tract
 Biliar Tract
 Biliar Tract
 Centrilobular

Multifocal, Marked
 Multifocal, Mild
 Chronic, Multifocal, Mild
 Marked
 Moderate

Note: METAPL TGLs = 1,2
 Note: FIBROSIS TGLs = 1,2
 Note: HYPERPLASIA TGLs = 1,2
 Note: INFLAMMATION TGLs = 1,2
 Note: DEVELOP MALFOR TGLs = 3

Lung

Congestion
 Foreign Body

Moderate
 Marked

[Foreign Body TGLS = 4-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 4

SEX: Female

DAY ON TEST: 689

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Bronchial	Thymus
------------------------	--------

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

[Cytomegaly TGLS = 5-6+21,6-22,7-23,8-24]

[Degeneration TGLS = 5-6+21,6-22,7-23,8-24]

[Fibrosis TGLS = 5-6+21,6-22,7-23,8-24]

[Hyperplasia TGLS = 5-6+21,6-22,7-23,8-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 4

DOSE: 8 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 689

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 10-6+21+22+23+24+25]

[Necrosis TGLS = 5-6+21,6-22,7-23,8-24]

[Vacuolization Cytoplasmic TGLS = 5-6+21,6-22,7-23,8-24,9-25]

Lung

Granuloma
Infiltration Cellular
Leukemia Mononuclear
Pigmentation

Multiple, Mild
Histiocyte, Multifocal, Minimal

Cholesterol, Multifocal, Minimal

Note: GRANULOMA TGLs = 11-2

Lymph Node

Pancreatic

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-27

Mammary Gland

Duct

Cyst
Fibroadenoma

Note: FIBROADENOMA TGLs = 1-26

Note: CYST TGLs = 2-8

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Moderate

Pars Distalis

Cyst

Pars Distalis

Hyperplasia

Focal, Mild

Pars Distalis

Pigmentation

Hemosiderin, Minimal

Spleen

Congestion
Hematopoietic Cell Proliferation
Leukemia Mononuclear

Mild
Mild

Note: HEMA CELL PROL TGLs = 3-6

Note: CONGESTION TGLs = 3-6

Note: LEUKEMIA MONUC TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Brain

Clitoral Gland

Esophagus

Intestine Large - Cecum

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Bronchial

Lymph Node - Mandibular

Lymph Node - Mediastinal

Lymph Node - Mesenteric

Nose

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

OBSERVATIONS

Bone Marrow

Leukemia Mononuclear

Heart

Cardiomyopathy

Minimal

Intestine Large

Colon

Parasite Metazoan

Mild

Kidney

Leukemia Mononuclear

Liver

Nephropathy

Chronic, Marked

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Marked

Hepatocyte

Cytomegaly

Marked

Hepatocyte

Degeneration

Multifocal, Moderate

Biliar Tract

Fibrosis

Multifocal, Marked

Hepatocellular Adenoma

Biliar Tract

Hyperplasia

Multifocal, Marked

Hepatocyte

Hyperplasia

Nodular, Multifocal, Marked

Biliar Tract

Inflammation

Chronic, Multifocal, Marked

Leukemia Mononuclear

Biliar Tract

Metaplasia

Marked

Hepatocyte

Necrosis

Multifocal, Mild

Kupffer Cell

Pigmentation

Multifocal, Mild

Hepatocyte

Vacuolization Cytoplasmic

Marked

[Cytomegaly TGLS = 2-21,3-22,5-23,6-24,7-25]

[Degeneration TGLS = 2-21,3-22,5-23,6-24,7-25]

[Fibrosis TGLS = 2-21,3-22,5-23,6-24,7-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 66	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 8 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 2-21,3-22,4-23,6-24]

[Necrosis TGLS = 2-21,3-22,4-23,6-24]

[Vacuolization Cytoplasmic TGLS = 2-21,3-22,5-23,6-24,7-25]

Lung	Alveolar Epith	Granuloma Hyperplasia Infiltration Cellular Leukemia Mononuclear Pigmentation	Multiple, Mild Focal, Minimal Histiocyte, Multifocal, Mild Cholesterol, Focal, Minimal
Mammary Gland	Duct	Cyst	
Ovary		Cyst	
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Mild Hemosiderin, Mild
Spleen		Leukemia Mononuclear	
Urinary Bladder	Transit Epithe	Papilloma	
Uterus		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 67

TRT#: 4

SEX: Female

DAY ON TEST: 696

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney		Leukemia Mononuclear Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 2-5 Note: LEUKEMIA MONUC TGLs = 2-5			
Liver	Biliar Tract	Cholangiocarcinoma Cyst Cyst Multilocular	Multiple Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 4

SEX: Female

DAY ON TEST: 696

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 4-6+21,5-22,6-23,7-24]
 [Degeneration TGLS = 4-6+21,5-22,6-23,7-24]
 [Fibrosis TGLS = 4-6+21,5-22,6-23,7-24]
 [Hyperplasia TGLS = 3-6+21+22+23+24+25]
 [Hyperplasia TGLS = 4-6+21,5-22,6-23,7-24]
 [Necrosis TGLS = 4-6+21,5-22,6-23,7-24]
 [Vacuolization Cytoplasmic TGLS = 4-6+21,5-22,6-23,7-24,8-25]

Lung		Granuloma	Multiple, Minimal
Lymph Node	Mediastinal	Ectasia	Minimal
	Pancreatic	Ectasia	Marked
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: PANCREATIC NODE IS ON SLIDE 23.			
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 1-26			
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Congestion	Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 68

TRT#: 4

SEX: Female

DAY ON TEST: 698

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Nose
Ovary	Pancreas	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: FIBROSIS	TGLs = 4-6+21,5-22,6-23,7-24,8-25		
Note: LEUKEMIA MONUC	TGLs = 3-6+21+22+23+24+25		
Note: HYPERPLASIA	TGLs = 4-6+21,5-22,6-23,7-24,8-25		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 4

SEX: Female

DAY ON TEST: 698

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 4-6+21,5-22,6-23,7-24,8-25

Note: CHOLANGIOCARC TGLs = 4-6+21,5-22,6-23,7-24,8-25

Note: CYST TGLs = 4-6+21,5-22,6-23,7-24,8-25

Note: INFLAMMATION TGLs = 4-6+21,5-22,6-23,7-24,8-25

Lung Granuloma Multiple, Mild

Leukemia Mononuclear

Note: GRANULOMA TGLs = 9-2

Lymph Node Mediastinal Ectasia Moderate

Pancreatic Ectasia Moderate

Mandibular Leukemia Mononuclear

Mediastinal Leukemia Mononuclear

Mesenteric Leukemia Mononuclear

Pancreatic Leukemia Mononuclear

Note: LYMPH NODE ON SLIDE 23 IS BELIEVED TO BE PANCREATIC.

Mammary Gland Duct Cyst

Pituitary Gland Pars Distalis Adenoma

Pars Distalis Angiectasis Moderate

Pars Distalis Leukemia Mononuclear

Pars Distalis Pigmentation Hemosiderin, Mild

Spleen Congestion Mild

Hematopoietic Cell Proliferation Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-6

Note: HEMA CELL PROL TGLs = 2-6

Note: CONGESTION TGLs = 2-6

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 4

SEX: Female

DAY ON TEST: 521

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Uterus

Bone
Heart
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Trachea

OBSERVATIONS

Bone Marrow
Intestine Large
Kidney
Note: DEVELOP MALFOR TGLs = 3-6
Liver

Rectum

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hyperplasia
Parasite Metazoan
Developmental Malformation

Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Mild

Multiple
Multiple, Marked
Moderate
Multifocal, Moderate
Multifocal, Moderate
Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Moderate
Multifocal, Mild
Moderate

[Cytomegaly TGLS = 5-5]
[Degeneration TGLS = 6-21,7-22,8-23,9-24,10-25]
[Fibrosis TGLS = 6-21,7-22,8-23]
[Hyperplasia TGLS = 6-21,7-22,8-23]
[Hyperplasia TGLS = 6-21,7-22,8-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 69	TRT#: 4	SEX: Female	DAY ON TEST: 521
	DOSE: 8 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 6-21,7-22,8-23]
[Vacuolization Cytoplasmic TGLS = 4-5,6-21,7-22,8-23]

Lymph Node	Pancreatic	Ectasia	Moderate
	Pancreatic	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-27			
Note: ECTASIA TGLs = 2-27			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-26			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Note: ANGIECTASIS TGLs = 11-1			
Note: HYPERPLASIA TGLs = 11-1			
Spleen		Congestion	Moderate
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 4

SEX: Female

DAY ON TEST: 697

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Bronchial	Lymph Node - Mandibular
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OBSERVATIONS

Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 3-6+21,4-22,5-23,6-24]

[Degeneration TGLS = 3-6+21,4-22,5-23,6-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 4

SEX: Female

DAY ON TEST: 697

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-6+21,4-22,5-23,6-24]

[Hyperplasia TGLS = 3-6+21,4-22,5-23,6-24]

[Inflammation TGLS = 2-6+21+22+23+24]

[Necrosis TGLS = 3-6+21,4-22,5-23,6-24]

[Vacuolization Cytoplasmic TGLS = 3-6+21,4-22,5-23,6-24]

Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Ectasia	Moderate
	Pancreatic	Leukemia Mononuclear	

Note: PANCREATIC NODE IS ON SLIDE 23.

Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild

Note: PIGMENT TGLs = 7-1

Note: ADENOMA TGLs = 7-1

Note: ANGIECTASIS TGLs = 7-1

Spleen		Leukemia Mononuclear	
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Note: LEUKEMIA MONUC TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 4

SEX: Female

DAY ON TEST: 457

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Stomach - Forestomach
Trachea

Bone
Heart
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus

OBSERVATIONS

Brain

Note: HEMORRHAGE TGLs = 9-1
Note: ASTROCYTO MAL TGLs = 9-1

Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Note: HYPERPLASIA TGLs = 6,7,8,
Note: CHOLANGIOCARC TGLs = 6,7,8
[Degeneration TGLS = 6,7,8]
[Fibrosis TGLS = 6,7,8]

Astrocytoma Malignant
Hemorrhage

Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Multifocal, Mild

Chronic, Minimal
Multiple
Multiple, Moderate
Moderate
Multifocal, Mild
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Moderate
Multifocal, Mild
Multifocal, Mild
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 71	TRT#: 4	SEX: Female	DAY ON TEST: 457
	DOSE: 8 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 6,7,8]

[Vacuolization Cytoplasmic TGLS = 3,4,5]

Lymph Node	Pancreatic	Ectasia	Mild
Note: TGL 2 IS ON SLIDE VII.			
Note: ECTASIA TGLs = 2			
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Congestion	Mild
Uterus		Polyp Stromal	
Note: TGL 1 IS ON SLIDE VI.			
Note: POLYP STROMAL TGLs = 1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:05
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 72

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Ovary	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hemorrhage	Focal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

[Cytomegaly TGLS = 4-6+21,5-22,6-23,7-24,8-25]

[Degeneration TGLS = 4-6+21,5-22,6-23,7-24,8-25]

[Fibrosis TGLS = 4-6+21,5-22,6-23,7-24,8-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 4

DOSE: 8 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-6+21,5-22,6-23,7-24]

[Necrosis TGLS = 4-6+21,5-22,6-23,7-24]

[Vacuolization Cytoplasmic TGLS = 4-6+21,5-22,7-24,8-25]

Lung		Hemorrhage	Multifocal, Mild
Note: HEMORRHAGE	TGLs = 9-2		
Lymph Node	Mediastinal	Ectasia	Moderate
	Pancreatic	Ectasia	Marked
	Mandibular	Hyperplasia	Mild
	Mesenteric	Hyperplasia	Mild
Note: ECTASIA	TGLs = 10-27		
Note: ECTASIA	TGLs = 2-26		
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 1-8		
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Atrophy	Focal, Minimal
		Hyperplasia	Focal, Mild
Note: HYPERPLASIA IS ON SLIDE 23.			
Note: FOCAL ATROPHY IS ON SLIDE 26.			
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 73

TRT#: 4

SEX: Female

DAY ON TEST: 716

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 2-8		
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 6-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 4

SEX: Female

DAY ON TEST: 716

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SLIDE 23 GOOD PHOTOGRAPH OF CHOLANGIOCARCINOMA.

Note: CHOLANGIOCARC TGLs = 10-24,11-25,12-29

Note: CHOLANGIOCARC TGLs = 7-6+21,8-22,9-23

[Cytomegaly TGLs = 10-24,11-25,12-29]

[Degeneration TGLs = 10-24,11-25,12-29]

[Fibrosis TGLs = 7-6+21,8-22,9-23]

[Hyperplasia TGLs = 7-6+21,8-22,9-23]

[Hyperplasia TGLs = 10-24,11-25,12-29]

[Inflammation TGLs = 10-24,11-25,12-29]

[Necrosis TGLs = 7-6+21,8-22,10-24,11-25]

[Pigmentation TGLs = 7-6+21,8-22,9-23]

[Vacuolization Cytoplasmic TGLs = 7-6+21,8-22,9-23]

Lung Mediastinum, Venule Cholangiocarcinoma Metastatic (Liver)

Note: METASTATIC LESION IS IN VESSEL.

Lymph Node Mediastinal, Pancreatic Cholangiocarcinoma Metastatic (Liver)

Note: TGL 5 ON SLIDE 28 IS PANCREATIC NODE.

Note: ABOVE NOTE NEEDED BECAUSE REPT MORP ISN'T ON META SCREEN.

Note: GOOD TO PHOTOGRAPH METASTATIC LESIONS.

Mammary Gland Duct Adenocarcinoma Cyst Fibroadenoma

Note: FIBROADENOMA TGLs = 3-26

Note: ADENOCARC TGLs = 4-27

Note: CYST TGLs = 1-8

Pancreas Cholangiocarcinoma Metastatic (Liver)

Note: METASTATIC LESION IS ON SLIDE 4.

Parathyroid Gland Hyperplasia Mild

Note: HYPERPLASIA TGLs = 13-3

Spleen Hematopoietic Cell Proliferation Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 4

SEX: Female

DAY ON TEST: 424

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 13-1		
Note: HEMORRHAGE	TGLs = 13-1		
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
		Developmental Malformation	Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 74	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Dead	DAY ON TEST: 424 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: DEVELOP MALFOR TGLs = 9 [Degeneration TGLS = 5,6,7,8] [Fibrosis TGLS = 5,6,7,8] [Hyperplasia TGLS = 5,6,7,8] [Hyperplasia TGLS = 5,6,7,8] [Necrosis TGLS = 5,6,7,8] [Pigmentation TGLS = 4] [Vacuolization Cytoplasmic TGLS = 5,6,7,8]	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Lung	Alveolar Epith	Hemorrhage Hyperplasia Leukemia Mononuclear	Multifocal, Mild Focal, Mild
Note: LEUKEMIA MONUC TGLs = 11-4 Note: HEMORRHAGE TGLs = 11-4			
Lymph Node	Bronchial Mandibular Mediastinal Mesenteric Pancreatic	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12-3 Note: LEUKEMIA MONUC TGLs = 1			
Mesentery	Fat	Leukemia Mononuclear Necrosis	Focal, Mild
Note: LEUKEMIA MONUC AND NECROSIS ARE ON SLIDE 5.			
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear Necrosis	Focal, Marked
Note: LEUKEMIA MONUC TGLs = 2-2,3-2 Note: NECROSIS TGLs = 3-2			
Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 4

SEX: Female

DAY ON TEST: 424

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 4

SEX: Female

DAY ON TEST: 664

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Parathyroid Gland
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Salivary Glands
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Skin
Trachea

OBSERVATIONS

Adrenal Gland

Heart
Kidney
Liver

Cortex
Cortex

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hematopoietic Cell Proliferation
Hepatocellular Carcinoma
Cardiomyopathy
Nephropathy
Cyst
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Carcinoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Metastatic (Liver)
Mild
Chronic, Moderate
Multiple, Marked
Moderate
Multifocal, Mild
Multifocal, Marked

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Marked
Multifocal, Mild
Mild

Note: [HEPATOCLR CARC] TGLs = 5,6,7,8-6+21+25+27
[Cytomegaly TGLS = 6-6+21,7-25]
[Degeneration TGLS = 6-6+21,7-25]
[Hyperplasia TGLS = 6-6+21,7-25]
[Hyperplasia TGLS = 6-6+21,7-25]
[Necrosis TGLS = 5-6,6-21,7-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 4

DOSE: 8 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 664

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 6-6-1,8-27]

Lung	Fat, Mediastinum	Necrosis	Multifocal, Mild
Lymph Node	Mediastinal	Hepatocellular Carcinoma	Metastatic (Liver)
Note: SLIDE 6 BELIEVED TO BE PANCREATIC NODE.			
Note: TGL 10 ON SLIDE 29 IS MEDIASTINAL NODE.			
Note: ABOVE NOTE NEEDED BECAUSE REPT MORP ISN'T ON META SCREEN.			
Mammary Gland	Duct	Cyst	
Mesentery		Hepatocellular Carcinoma	Metastatic (Liver)
Note: [HEPATOCLR CARC] TGLs = 4-26			
Note: METASTATIC LESION IS ON SLIDES 4 AND 7.			
Note: TGL 4 HEMA CELL PROLIF IN METASTATIC LESION.			
Nose	Nasolacrimal Dct	Inflammation	Subacute, Mild
Ovary		Hepatocellular Carcinoma	Metastatic (Liver)
Pituitary Gland	Pars Distalis	Cyst	
Skeletal Muscle	Diaphragm	Hepatocellular Carcinoma	Metastatic (Liver)
Note: [HEPATOCLR CARC] TGLs = 9-28			
Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 3-6-1			
Stomach	Glandular	Erosion	Multiple, Moderate
	Glandular	Ulcer	Moderate
Uterus		Cyst	
		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 76

TRT#: 4

SEX: Female

DAY ON TEST: 663

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mediastinal	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Bronchial	Lymph Node - Mesenteric	Thymus
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OBSERVATIONS

Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hemorrhage	Focal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: HEMORRHAGE IS ON SLIDE 21.

Note: CONGESTION TGLs = 3-6+21+22+23+24+25

Note: CHOLANGIOCARC TGLs = 4-6,5-22,6-23

[Cytomegaly TGLs = 4-6+21,5-22,6-23,7-24,8-25]

[Degeneration TGLs = 4-6+21,5-22,6-23,7-24,8-25]

[Fibrosis TGLs = 4-6+21,5-22,6-23,7-24,8-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 76	TRT#: 4	SEX: Female	DAY ON TEST: 663
	DOSE: 8 MG/KG	DISP: Dead	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-6,5-22,6-23]

[Vacuolization Cytoplasmic TGLS = 4-6+21,7-24,8-25]

Lung	Fat, Mediastinum	Necrosis	Multifocal, Mild
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Moderate
Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ANGIECTASIS	TGLs = 9-1,10-1		
Note: ADENOMA	TGLs = 9-1,10-1		
Note: CYST	TGLs = 9-1,10-1		
Note: PIGMENT	TGLs = 9-1,10-1		
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 4

SEX: Female

DAY ON TEST: 471

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Diffuse, Moderate
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Marked
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 12-1,13-1		
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: CHOLANGIOCARC TGLs = 2,3,4
[Cytomegaly TGLs = 2,3,4,5,6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 77	TRT#: 4	SEX: Female	DAY ON TEST: 471
	DOSE: 8 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 2,3,4,5,6]
[Fibrosis TGLS = 2,3,4,5,6]
[Necrosis TGLS = 2,3,4]
[Pigmentation TGLS = 11]
[Vacuolization Cytoplasmic TGLS = 2,3,4,5,6]

Lung		Granuloma	Multiple, Minimal
		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Note: LEUKEMIA MONUC	TGLs = 7	
	Note: PANCREATIC NODE IS ON SLIDE VI.		
Mammary Gland	Duct	Cyst	
Pancreas		Leukemia Mononuclear	
	Note: TGL 7 IS ON SLIDE VI.		
	Note: LEUKEMIA MONUC	TGLs = 7	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
	Note: LEUKEMIA MONUC	TGLs = 1-2	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 4

SEX: Female

DAY ON TEST: 339

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Bronchial
Mammary Gland
Pituitary Gland
Thymus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Ovary
Salivary Glands
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Lymph Node - Mediastinal
Pancreas
Skin
Trachea

OBSERVATIONS

Liver

Hepatocyte
Biliar Tract
Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell

Cholangiocarcinoma
Cytomegaly
Fibrosis
Hyperplasia
Inflammation
Metaplasia
Pigmentation

Mild
Multifocal, Marked
Multifocal, Marked
Chronic, Multifocal, Mild
Mild
Multifocal, Mild

Note: CHOLANGIOCARC TGLs = 4

Note: HYPERPLASIA TGLs = 4

[Metaplasia TGLS = 4]

[Pigmentation TGLS = 4]

Nose

Foreign Body
Fungus
Inflammation
Congestion
Hyperkeratosis
Hyperplasia
Adenocarcinoma

Moderate
Moderate
Suppurative, Acute, Moderate
Minimal
Mild
Mild

Spleen

Stomach

Forestomach
Forestomach

Uterus

Note: TGL 1 IS ON SLIDE I.

Note: ADENOCARC TGLs = 1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 4

SEX: Female

DAY ON TEST: 339

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:05
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 79 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 549
DOSE: 8 MG/KG **DISP:** Moribund **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Salivary Glands	Skin	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland	Thyroid Gland
-------------------	---------------

OBSERVATIONS

Brain	Compression	Mild
Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-6		
Liver	Cholangiocarcinoma	Multiple
	Cyst	Multiple, Marked
	Cytomegaly	Moderate
	Degeneration	Multifocal, Mild
	Fibrosis	Multifocal, Marked
	Hyperplasia	Multifocal, Marked
	Hyperplasia	Nodular, Multifocal, Marked
	Inflammation	Chronic, Multifocal, Marked
	Metaplasia	Marked
	Necrosis	Multifocal, Mild
	Pigmentation	Multifocal, Mild
	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 5-21,6-22,7-23,8-24]
 [Degeneration TGLS = 5-21,6-22,7-23,8-24]
 [Fibrosis TGLS = 5-21,6-22,7-23,8-24]
 [Hyperplasia TGLS = 5-21,6-22,7-23,8-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 79

TRT#: 4

SEX: Female

DAY ON TEST: 549

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 5-21,6-22,7-23,8-24]

[Vacuolization Cytoplasmic TGLS = 5-21,6-22,7-23,9-24]

Lymph Node	Pancreatic	Ectasia	Marked
Note: PANCREATIC NODE IS ON SLIDE 23.			
Mammary Gland	Duct	Adenoma Cyst	
Note: [ADENOMA] TGLs = 1-25			
Note: CYST TGLs = 1-25			
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Marked
Note: ANGIECTASIS TGLs = 10-1			
Note: ADENOMA TGLs = 10-1			
Spleen		Congestion	Mild
Stomach	Forestomach	Erosion	Moderate
	Glandular	Erosion	Mild
	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Moderate
	Forestomach	Ulcer	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 4

SEX: Female

DAY ON TEST: 511

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: FIBROSIS TGLs = 11-21+22+23+24+25

Note: CYST TGLs = 6-21,7-22,8-23,9-24

Note: HYPERPLASIA TGLs = 11-21+22+23+24+25

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 4

SEX: Female

DAY ON TEST: 511

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 6-21,7-22,8-23,9-24,10-25

Note: INFLAMMATION TGLs = 11-21+22+23+24+25

Note: CHOLANGIOCARC TGLs = 6-21,7-22,8-23,9-24

Note: LEUKEMIA MONUC TGLs = 5-21+22+23+24+25

Lung Granuloma Multiple, Minimal

Leukemia Mononuclear

Lymph Node Pancreatic Ectasia Moderate

Bronchial Leukemia Mononuclear

Mandibular Leukemia Mononuclear

Mediastinal Leukemia Mononuclear

Mesenteric Leukemia Mononuclear

Pancreatic Leukemia Mononuclear

Note: ECTASIA TGLs = 12-26

Note: LEUKEMIA MONUC TGLs = 12-26

Mammary Gland Duct Cyst

Note: CYST TGLs = 1-8

Nose Nasolacrim Dct Inflammation Suppurative, Acute, Mild

Ovary Leukemia Mononuclear

Pituitary Gland Pars Distalis Cyst

Pars Distalis Hyperplasia Focal, Moderate

Pars Distalis Leukemia Mononuclear

Spleen Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-2-1

Thymus Leukemia Mononuclear

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 4

SEX: Female

DAY ON TEST: 718

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Lung
Lymph Node - Mesenteric
Salivary Glands
Thymus
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Skin
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Trachea

OBSERVATIONS

Blood Vessel
Abdominal
Abdominal
Abdominal
Abdominal

Cholangiocarcinoma
Hypertrophy
Inflammation
Thrombosis

Metastatic (Liver)
Marked
Subacute, Moderate

Note: CHOLANGIOCARC TGLs = 6-28
Note: HYPERTROPHY TGLs = 6-28,7-29
Note: THROMBUS TGLs = 6-28
Note: INFLAMMATION TGLs = 6-28,7-29

Heart
Islets, Pancreatic
Kidney

Cardiomyopathy
Adenoma
Nephropathy

Mild
Chronic, Marked

Note: NEPHROPATHY TGLs = 5-5
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract

Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia

Multiple
Multiple, Marked
Moderate
Multifocal, Mild
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 81	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Dead	DAY ON TEST: 718 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Cytomegaly TGLS = 8-6+21,9-22,10-23,11-24]		
	[Degeneration TGLS = 8-6+21,9-22,10-23,11-24]		
	[Fibrosis TGLS = 8-6+21,9-22,10-23,11-24]		
	[Hyperplasia TGLS = 8-21,9-22,10-23]		
	[Necrosis TGLS = 8-21,9-22,10-23]		
	[Vacuolization Cytoplasmic TGLS = 8-6+21,9-22,10-23,11-24]		
Lymph Node	Pancreatic	Ectasia	Mild
Note: ECTASIA	TGLs = 4-27		
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Mineralization	Focal, Mild
		Necrosis	Focal, Marked
Note: MINERALIZATION	TGLs = 3-26		
Note: NECROSIS	TGLs = 3-26		
Ovary		Cyst	
Note: CYST	TGLs = 2-7		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Spleen		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 4

SEX: Female

DAY ON TEST: 592

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Jejunum
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Intestine Large - Colon
Islets, Pancreatic
Skin
Trachea

Bone
Intestine Large - Rectum
Nose
Stomach - Forestomach
Urinary Bladder

Esophagus
Intestine Small - Ileum
Parathyroid Gland
Stomach - Glandular
Uterus

OBSERVATIONS

Bone Marrow
Brain
Clitoral Gland
Heart
Intestine Small
Kidney

Duct
Duodenum, Serosa

Fibrous Histiocytoma
Fibrous Histiocytoma
Cyst
Cardiomyopathy
Fibrous Histiocytoma
Fibrous Histiocytoma
Nephropathy

Mild
Chronic, Moderate

Note: FIB HISTIOCYT TGLs = 5-5,6-5
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Fibrous Histiocytoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Multiple
Multiple, Marked
Moderate
Multifocal, Moderate
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Moderate
Multifocal, Mild
Moderate

[Cytomegaly TGLs = 9-6+21,10-22,11-23,13-25]
[Degeneration TGLs = 12-24,13-25,14-30]
[Fibrosis TGLs = 9-6+21,10-22,11-23,13-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 4

SEX: Female

DAY ON TEST: 592

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 9-6+21,10-22,11-23,13-25]
 [Hyperplasia TGLS = 9-6+21,10-22,11-23,13-25]
 [Inflammation TGLS = 12-24,13-25,14-30]
 [Necrosis TGLS = 9-6+21,10-22,11-23,13-25]
 [Pigmentation TGLS = 9-21,10-22,11-23]
 [Vacuolization Cytoplasmic TGLS = 9-6+21,10-22,11-23]

Lung	Mediastinum	Fibrous Histiocytoma Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 7-2		
Lymph Node	Bronchial Mandibular Mediastinal Mesenteric	Fibrous Histiocytoma Fibrous Histiocytoma Fibrous Histiocytoma Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 8-29		
Note: FIB HISTIOCYT	TGLs = 1-5		
Mammary Gland	Duct	Cyst	
Mesentery		Fibrous Histiocytoma	Multiple
Note: FIB HISTIOCYT IS ON SLIDES 4 AND 7.			
Ovary		Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 2-7+27		
Pancreas		Fibrous Histiocytoma	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Fibrous Histiocytoma Hematopoietic Cell Proliferation	Moderate
Note: FIB HISTIOCYT	TGLs = 4-28+6+6-1		
Note: HEMA CELL PROL	TGLs = 3-6-1		
Thymus		Fibrous Histiocytoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pancreas
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Uterus

Bone
Heart
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Trachea

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Clitoral Gland
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte

Kupffer Cell
Hepatocyte

Hyperplasia
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Adenoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Neovascularization
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Marked
Multiple
Multiple, Marked
Moderate
Multifocal, Moderate
Multifocal, Marked

Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Mild
Multifocal, Mild
Marked

[Cytomegaly TGLS = 1-6+21,2-22,3-23,4-24]

[Degeneration TGLS = 1-6+21,2-22,3-23,4-24]

[Fibrosis TGLS = 1-6+21,2-22,3-23,4-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 83	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-6+21,2-22,3-23,4-24]

[Necrosis TGLS = 1-6+21,2-22,3-23,4-24]

[Vacuolization Cytoplasmic TGLS = 1-6+21,2-22,3-23,4-24,5-25]

Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder
Uterus			

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 1-6+21,2-22,3-23,4-24,5-25]

[Degeneration TGLS = 1-6+21,2-22,3-23,4-24,5-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 84	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 8 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 1-6+21,2-22,3-23,4-24,5-25]
[Hyperplasia TGLS = 1-6+21,2-22,3-23,4-24,5-25]
[Necrosis TGLS = 1-6+21,2-22,3-23,4-24,5-25]
[Vacuolization Cytoplasmic TGLS = 1-6+21,2-22,3-23,4-24,5-25]

Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 6-8		
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 7-26		
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 85

TRT#: 4

SEX: Female

DAY ON TEST: 633

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Skin		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Focal, Mild
		Leukemia Mononuclear	
Clitoral Gland		Leukemia Mononuclear	
Esophagus		Leukemia Mononuclear	
Harderian Gland		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
		Thrombosis	
Note: LEUKEMIA MONUC	TGLs = 20-8		
Note: THROMBUS	TGLs = 20-8		
Intestine Large	Rectum	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC	TGLs = 10-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 633 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Hepatocyte	Necrosis	Multifocal, Mild
Kupffer Cell	Pigmentation	Multifocal, Mild
	Thrombosis	
Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: THROMBUS IS ON SLIDE 21.

- [Cytomegaly TGLS = 12-21,14-23,15-24,17-25,18-6]
- [Degeneration TGLS = 12-21,14-23,15-24,17-25,18-6]
- [Fibrosis TGLS = 12-21,14-23,15-24,17-25,18-6]
- [Hyperplasia TGLS = 12-21,14-23,15-24,17-25,18-6]
- [Hyperplasia TGLS = 11-6+21+22+23+24+25]
- [Necrosis TGLS = 12-21,14-23,15-24,17-25,18-6]
- [Vacuolization Cytoplasmic TGLS = 12-21,13-22,14-23,15-24,16-25]

Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Congestion	Moderate
	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

- Note: LEUKEMIA MONUC TGLs = 21-3
- Note: CONGESTION TGLs = 21-3
- Note: LEUKEMIA MONUC TGLs = 19-29
- Note: LEUKEMIA MONUC TGLs = 2-5
- Note: LEUKEMIA MONUC TGLs = 6-7

Mammary Gland	Duct	Cyst	
		Fibroadenoma	
		Leukemia Mononuclear	

- Note: CYST TGLs = 1-8
- Note: FIBROADENOMA TGLs = 3-26

Mesentery	Fat	Necrosis	Multifocal, Marked
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 85	TRT#: 4	SEX: Female	DAY ON TEST: 633
	DOSE: 8 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS	TGLs = 5-27		
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Salivary Glands		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6-1,8-28		
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Trachea		Leukemia Mononuclear	
Urinary Bladder		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 86

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node - Bronchial	Lymph Node - Mediastinal	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

[Cytomegaly TGLS = 3-21,5-23,7-25]
 [Degeneration TGLS = 3-21,5-23,7-25]
 [Fibrosis TGLS = 3-21,5-23,7-25]
 [Hyperplasia TGLS = 3-21,5-23,7-25]
 [Necrosis TGLS = 3-21,5-23,7-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 86	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 3-21,4-22,5-23,6-24,7-25]

Lymph Node	Mandibular	Hyperplasia	Mild
	Mesenteric	Hyperplasia	Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-27			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA TGLs = 8-1			
Note: CYST TGLs = 8-1			
Note: ANGIECTASIS TGLs = 8-1			
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mesenteric

Nose

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Trachea

Urinary Bladder

Uterus

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow

Hyperplasia

Mild

Clitoral Gland

Duct

Cyst

Heart

Cardiomyopathy

Minimal

Kidney

Nephropathy

Chronic, Marked

Liver

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Marked

Cyst Multilocular

Hepatocyte

Cytomegaly

Moderate

Hepatocyte

Degeneration

Multifocal, Moderate

Biliar Tract

Fibrosis

Multifocal, Marked

Biliar Tract

Hyperplasia

Multifocal, Marked

Hepatocyte

Hyperplasia

Nodular, Multifocal, Marked

Biliar Tract

Inflammation

Chronic, Multifocal, Marked

Biliar Tract

Metaplasia

Marked

Hepatocyte

Necrosis

Multifocal, Mild

Neovascularization

Mild

Kupffer Cell

Pigmentation

Multifocal, Mild

Hepatocyte

Vacuolization Cytoplasmic

Moderate

Note: FIBROSIS TGLs = 2-6+21,3-22,4-23,7-24

Note: CYST MULTILOC IS ON SLIDE 22.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 87	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 8 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 2-6+21,3-22,4-23,6-24

Note: NEOVASCUZATION OF CYST IS ON SLIDE 23.

[Cytomegaly TGLS = 2-6+21,3-22,4-23,7-24]

[Degeneration TGLS = 2-6+21,3-22,5-23]

[Necrosis TGLS = 2-6+21,3-22,4-23,7-24]

[Vacuolization Cytoplasmic TGLS = 2-6+21,3-22,4-23,6-24]

Lymph Node	Mandibular	Ectasia	Mild
	Pancreatic	Ectasia	Marked
	Mandibular	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Mild
Note: ECTASIA	TGLs = 1-7		
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Moderate
Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 4

SEX: Female

DAY ON TEST: 701

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lymph Node - Bronchial

Lymph Node - Mandibular

Lymph Node - Mediastinal

Lymph Node - Mesenteric

Nose

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Bone Marrow

Hyperplasia

Minimal

Clitoral Gland

Duct

Cyst

Hyperplasia

Mild

Inflammation

Suppurative, Acute, Focal, Mild

Note: CYST TGLs = 3-8

Note: ADENOMA TGLs = 3-8

Note: INFLAMMATION TGLs = 3-8

Note: [HYPERPLASIA] TGLs = 3-8

Heart

Cardiomyopathy

Minimal

Kidney

Nephropathy

Chronic, Moderate

Liver

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Marked

Hepatocyte

Cytomegaly

Moderate

Hepatocyte

Degeneration

Multifocal, Marked

Biliar Tract

Fibrosis

Multifocal, Marked

Biliar Tract

Hyperplasia

Multifocal, Marked

Hepatocyte

Hyperplasia

Nodular, Multifocal, Marked

Biliar Tract

Inflammation

Chronic, Multifocal, Marked

Leukemia Mononuclear

Biliar Tract

Metaplasia

Marked

Hepatocyte

Necrosis

Multifocal, Moderate

Kupffer Cell

Pigmentation

Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 4

DOSE: 8 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 701

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Hepatocyte	Vacuolization Cytoplasmic	Marked
[Cyst TGLS = 8-6+21,9-21,11-23,12-24,13-25]		
[Cytomegaly TGLS = 11-23,12-24,13-25]		
[Degeneration TGLS = 11-23,12-24,13-25]		
[Fibrosis TGLS = 8-6+21,9-21,10-22]		
[Hyperplasia TGLS = 8-6+21,9-21,10-22]		
[Hyperplasia TGLS = 11-23,12-24,13-25]		
[Inflammation TGLS = 8-6+21,9-21,11-23,12-24,13-25]		
[Necrosis TGLS = 8-6+21,9-21,10-22]		
[Pigmentation TGLS = 11-23,12-24,13-25]		
[Vacuolization Cytoplasmic TGLS = 8-6+21,9-21,10-22]		
Lung	Infiltration Cellular Pigmentation	Histiocyte, Focal, Mild Cholesterol, Focal, Mild
Lymph Node	Ectasia Leukemia Mononuclear	Mild
Note: LEUKEMIA MONUC TGLs = 6-30		
Note: ECTASIA TGLs = 6-30		
Mammary Gland	Duct Cyst Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 1-26,2-27		
Mesentery	Fat Necrosis	Multifocal, Marked
Note: NECROSIS TGLs = 4-28,5-29		
Pituitary Gland	Pars Distalis Cyst	
Spleen	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-6		
Thyroid Gland	C Cell Adenoma	
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 89 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 238
DOSE: 8 MG/KG **DISP:** Dosing Accident **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
Lung		Foreign Body	Mild
		Hemorrhage	Multifocal, Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-2		
Thymus		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:05
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 90

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 1-6+21,2-22,3-23,4-24,5-25]

[Degeneration TGLS = 1-6+21,2-22,3-23,4-24,5-25]

[Fibrosis TGLS = 1-6+21,2-22,3-23,4-24,5-25]

[Hyperplasia TGLS = 1-6+21,2-22,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-6+21,2-22,3-23]

[Vacuolization Cytoplasmic TGLS = 1-6+21,2-22,4-24,5-25]

Lung		Granuloma	Multiple, Minimal
Lymph Node	Mediastinal	Congestion	Mild
	Mediastinal	Ectasia	Moderate
Note: CONGESTION	TGLs = 10-3		
Note: ECTASIA	TGLs = 10-3		
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 6-26		
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	Multiple
Note: POLYP STROMAL	TGLs = 7-7,8-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 91

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-26		
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hemorrhage	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Kupffer Cell	Pigmentation	Multifocal, Mild
Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: HEMORRHAGE IS ON SLIDE 24 AND 21.

Note: CYST MULTIPLE IS ON SLIDE 21.

Note: INFLAMMATION TGLs = 9-25,10-28

[Cyst TGLS = 5-6+21,6-22,7-23,8-24]

[Cytomegaly TGLS = 8-24,9-25,10-28,13-6]

[Degeneration TGLS = 9-25,10-28]

[Fibrosis TGLS = 5-6+21,6-22,7-23]

[Hyperplasia TGLS = 5-6+21,6-22,7-23,8-24]

[Hyperplasia TGLS = 9-25,10-28]

[Inflammation TGLS = 5-6+21,6-22,7-23,8-24]

[Necrosis TGLS = 5-6+21,6-22,7-23,8-24]

[Vacuolization Cytoplasmic TGLS = 5-6+21,6-22,7-23,8-24]

Lung	Leukemia Mononuclear	
Lymph Node	Ectasia	Mild
	Ectasia	Moderate
	Leukemia Mononuclear	
	Leukemia Mononuclear	
	Leukemia Mononuclear	
	Leukemia Mononuclear	

Note: ECTASIA TGLs = 3-27

Note: LEUKEMIA MONUC TGLs = 3-27

Note: LEUKEMIA MONUC TGLs = 11-29

[Ectasia TGLS = 11-29]

Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 2-8		
Mesentery		Leukemia Mononuclear	
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 91	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Cyst
	Pars Distalis	Leukemia Mononuclear
Note: CYST	TGLs = 12-1	
Note: ANGIECTASIS	TGLs = 12-1	
Note: ADENOMA	TGLs = 12-1	
Note: LEUKEMIA MONUC	TGLs = 12-1	
Spleen		Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 4-6-1	
Stomach	Forestomach	Leukemia Mononuclear

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 92

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mediastinal	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 92	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 8 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: FIBROSIS	TGLs = 2-6+21,3-22,4-23,5-24,6-25		
	[Cytomegaly TGLS = 2-6+21,3-22,4-23,5-24,6-25]		
	[Degeneration TGLS = 2-6+21,3-22,4-23,5-24,6-25]		
	[Fibrosis TGLS = 2-6+21,3-22,4-23,5-24,6-25]		
	[Hyperplasia TGLS = 2-21,4-23,6-25]		
	[Necrosis TGLS = 2-21,4-23,6-25]		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 7-1		
Note: ADENOMA	TGLs = 7-1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-6		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 93

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Uterus	

MISSING

Thymus

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Clitoral Gland		Adenoma	
	Duct	Cyst	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 8-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
		Neovascularization	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 93	TRT#: 4	SEX: Female	DAY ON TEST: 731
	DOSE: 8 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

	Hepatocyte	Vacuolization Cytoplasmic	Marked
Note: NEOVASCUZATION OF CYST IS ON SLIDE 23. [Cytomegaly TGLS = 1-6+21,2-22,3-23,4-24,5-25] [Degeneration TGLS = 1-6+21,2-22,3-23,4-24,5-25] [Fibrosis TGLS = 1-6+21,2-22,3-23,4-24,5-25] [Hyperplasia TGLS = 1-6+21,3-23,5-25] [Necrosis TGLS = 1-6+21,3-23,5-25] [Vacuolization Cytoplasmic TGLS = 1-6+21,2-22,3-23,4-24,5-25]			
Mammary Gland	Duct	Cyst Fibroadenoma	
Note: CYST TGLs = 6-26,9-8 Note: FIBROADENOMA TGLs = 6-26			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Congestion Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild Mild
Note: LEUKEMIA MONUC TGLs = 7-6 Note: HEMA CELL PROL TGLs = 7-6 Note: CONGESTION TGLs = 7-6			
Urinary Bladder	Transit Epithe	Papilloma	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Stomach - Glandular

Adrenal Gland - Medulla
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Salivary Glands
Thymus

Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Trachea

Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Ovary
Stomach - Forestomach
Urinary Bladder

MISSING

Clitoral Gland

OBSERVATIONS

Bone
Note: HYPERTROPHY TGLs = 11-26

Cranium

Hypertrophy

Focal, Mild

Bone Marrow

Hyperplasia

Mild

Heart

Cardiomyopathy

Minimal

Kidney

Nephropathy

Chronic, Marked

Liver

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Marked

Hepatocyte

Cytomegaly

Moderate

Hepatocyte

Degeneration

Multifocal, Mild

Biliar Tract

Fibrosis

Multifocal, Marked

Biliar Tract

Hyperplasia

Multifocal, Marked

Hepatocyte

Hyperplasia

Nodular, Multifocal, Marked

Biliar Tract

Inflammation

Chronic, Multifocal, Marked

Biliar Tract

Metaplasia

Marked

Hepatocyte

Necrosis

Multifocal, Mild

Kupffer Cell

Pigmentation

Multifocal, Mild

Hepatocyte

Vacuolization Cytoplasmic

Marked

[Cytomegaly TGLS = 3-6+21+22+23+24+25]

[Degeneration TGLS = 4-6+21,5-22,6-23,7-24,8-25]

[Fibrosis TGLS = 4-6+21,5-22,6-23,7-24,8-25]

[Hyperplasia TGLS = 4-21,6-23,7-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-21,6-23,7-24]

[Necrosis TGLS = 4-6+21,5-22,6-23,7-24,8-25]

[Vacuolization Cytoplasmic TGLS = 4-6+21,5-22,6-23,7-24,8-25]

Lung

Granuloma
Infiltration Cellular
Pigmentation

Multiple, Mild
Histiocyte, Focal, Mild
Cholesterol, Focal, Mild

Note: INFILTRAT CELL TGLs = 9-2

Note: PIGMENT TGLs = 9-2

Note: GRANULOMA TGLs = 9-2

Lymph Node

Mediastinal
Pancreatic

Ectasia
Ectasia

Mild
Moderate

Note: ECTASIA TGLs = 2-24

Mammary Gland

Duct

Cyst

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Angiectasis
Cyst
Hyperplasia

Moderate
Moderate
Focal, Mild

Note: ANGIECTASIS TGLs = 10-1

Note: CYST TGLs = 10-1

Note: ADENOMA TGLs = 10-1

Note: HYPERPLASIA TGLs = 10-1

Spleen

Congestion
Hematopoietic Cell Proliferation

Mild
Mild

Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 1-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone Marrow

Brain

Clitoral Gland

Esophagus

Intestine Large - Cecum

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mandibular

Lymph Node - Mesenteric

Nose

Pancreas

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Bone

Cranium

Hypertrophy

Focal, Moderate

Note: HYPERTROPHY TGLs = 14-29

Heart

Cardiomyopathy

Minimal

Intestine Large

Colon

Parasite Metazoan

Mild

Kidney

Nephropathy

Chronic, Marked

Liver

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Marked

Hepatocyte

Cytomegaly

Moderate

Hepatocyte

Degeneration

Multifocal, Moderate

Biliar Tract

Fibrosis

Multifocal, Marked

Biliar Tract

Hyperplasia

Multifocal, Marked

Hepatocyte

Hyperplasia

Nodular, Multifocal, Marked

Biliar Tract

Inflammation

Chronic, Multifocal, Marked

Biliar Tract

Metaplasia

Marked

Hepatocyte

Necrosis

Multifocal, Moderate

Neovascularization

Mild

Kupffer Cell

Pigmentation

Multifocal, Mild

Hepatocyte

Vacuolization Cytoplasmic

Moderate

Note: NEOVASCUZATION OF CYST IS ON SLIDE 23.

Note: HYPERPLASIA TGLs = 4-6+21,5-22+22-1,7-24,8-25

[Cholangiocarcinoma TGLS = 7-24,8-25]

[Cyst TGLS = 4-6+21,6-23+23-1+23-2]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 8 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 7-24,8-25]
[Degeneration TGLS = 4-6+21,6-23+23-1+23-2]
[Fibrosis TGLS = 4-6+21,6-23+23-1+23-2]
[Hyperplasia TGLS = 4-6+21,6-23+23-1+23-2]
[Hyperplasia TGLS = 7-24,8-25]
[Inflammation TGLS = 7-24,8-25]
[Necrosis TGLS = 7-24,8-25]
[Pigmentation TGLS = 4-6+21,6-23+23-1+23-2]

Lymph Node	Bronchial	Ectasia	Mild
	Mediastinal	Ectasia	Moderate
	Renal	Ectasia	Marked
Note: ECTASIA	TGLs = 13-3		
[Ectasia TGLS = 12-28]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-26		
Note: CYST	TGLs = 2-8		
Ovary		Cyst	
Note: CYST	TGLs = 10-7		
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 9-6-1		
Uterus		Hemorrhage	Marked
Note: HEMORRHAGE	TGLs = 11-27		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 4

SEX: Female

DAY ON TEST: 665

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Trachea

Bone
Heart
Intestine Small - Duodenum
Lymph Node - Bronchial
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Salivary Glands
Thymus
Uterus

MISSING

Pituitary Gland

OBSERVATIONS

Bone Marrow
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hyperplasia
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Minimal
Chronic, Moderate
Multiple
Multiple, Marked
Marked
Multifocal, Moderate
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked

Marked
Multifocal, Mild
Multifocal, Mild
Marked

Note: FIBROSIS TGLs = 6-6+21,7-22,8-23,9-24,10-25

[Cytomegaly TGLs = 6-6+21,7-22,9-24,10-25]

[Degeneration TGLs = 6-6+21,7-22,8-23]

[Fibrosis TGLs = 6-6+21,7-22,8-23,9-24,10-25]

[Necrosis TGLs = 6-6+21,7-22,8-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 96	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 665 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 6-6+21,7-22,8-23,9-24,10-25]

Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Ectasia	Mild
	Pancreatic	Ectasia	Moderate
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-27		
Note: ECTASIA	TGLs = 4-27		
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-26		
Note: CYST	TGLs = 1-8-1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 4

SEX: Female

DAY ON TEST: 575

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Trachea

Bone
Heart
Intestine Small - Duodenum
Lymph Node - Bronchial
Pancreas
Skin
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Uterus

OBSERVATIONS

Bone Marrow
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract

Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell

Hepatocyte

Hyperplasia
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hemorrhage
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Moderate
Multiple
Multiple, Marked
Moderate
Multifocal, Marked
Multifocal, Marked
Multifocal, Mild
Multifocal, Marked
Nodular, Multifocal, Marked
Chronic, Multifocal, Marked
Marked
Multifocal, Marked
Multifocal, Mild
Hematoidin, Mild
Moderate

Note: [HYPERPLASIA] TGLs = 3,4,6,7-6+21+22+23

Note: INFLAMMATION TGLs = 4-6+21,6-22,7-23

Note: INFLAMMATION TGLs = 8-24,9-25,11-27

Note: FIBROSIS TGLs = 4-6+21,6-22,7-23

Note: PIGMENT TGLs = 5-22

Note: HYPERPLASIA TGLs = 8-24,9-25,11-27

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 97	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 575 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: CHOLANGIOCARC TGLs = 4-21,5-22,7-23,8-24,11-27
[Hemorrhage TGLS = 8-24,9-25,11-27]
[Necrosis TGLS = 4-21,5-22,7-23,8-24,11-27]
[Pigmentation TGLS = 10-27]

Lung		Granuloma	Multiple, Minimal
Lymph Node	Mediastinal	Ectasia	Mild
	Pancreatic	Ectasia	Marked
Note: ECTASIA TGLs = 2-26			
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 1-6			
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 98

TRT#: 4

SEX: Female

DAY ON TEST: 583

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mediastinal	Nose	Ovary	Pancreas
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Lymph Node - Bronchial	Parathyroid Gland
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OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Brain		Compression	Moderate
		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 4

DOSE: 8 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 583

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 3-6+21,4-22,5-23
 Note: HYPERPLASIA TGLs = 3-6,4-22,6-24,7-25,8-26
 Note: HYPERPLASIA TGLs = 6-24,7-25,8-26
 Note: HYPERPLASIA TGLs = 3-6+21,4-22,5-23
 Note: INFLAMMATION TGLs = 6-24,7-25,8-26
 Note: CYST TGLs = 3-6+21,4-22,5-23
 Note: FIBROSIS TGLs = 6-24,7-25,8-26
 Note: CHOLANGIOCARC TGLs = 3-6+21,4-22,5-23
 Note: CYST TGLs = 6-24,7-25,8-26
 Note: FIBROSIS TGLs = 3-6+21,4-22,5-23
 [Fibrosis TGLS = 6-24,7-25,8-26]

Lung

Congestion
Leukemia Mononuclear

Mild

Note: CONGESTION TGLs = 10-2
 Note: LEUKEMIA MONUC TGLs = 10-2

Lymph Node

Pancreatic
Mandibular
Mesenteric
Pancreatic

Ectasia
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Marked

Note: LEUKEMIA MONUC TGLs = 9-27
 Note: ECTASIA TGLs = 9-27

Mammary Gland

Duct

Cyst

Note: CYST TGLs = 1-8

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Angiectasis
Pigmentation

Marked
Hemosiderin, Mild

Note: ADENOMA TGLs = 11-1
 Note: ANGIECTASIS TGLs = 11-1
 Note: PIGMENT TGLs = 11-1

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-6

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 4

SEX: Female

DAY ON TEST: 583

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 4

SEX: Female

DAY ON TEST: 623

DOSE: 8 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Adrenal Gland - Medulla	Lymph Node - Bronchial
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OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Marked
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 2-21,3-22,4-23,5-24,6-25]

[Degeneration TGLS = 2-21,3-22,4-23,5-24,6-25]

[Fibrosis TGLS = 2-21,3-22,4-23,5-24,6-25]

[Hyperplasia TGLS = 2-21,3-22,4-23,5-24,6-25]

[Necrosis TGLS = 2-21,3-22,4-23,5-24,6-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 99	TRT#: 4 DOSE: 8 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 623 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 2-6+21,4-23,6-25]

Lymph Node	Pancreatic Pancreatic	Ectasia Necrosis	Marked Minimal
Note: ECTASIA TGLs = 7-26			
Mammary Gland	Duct	Cyst	
Nose		Fungus	Mild
		Inflammation	Suppurative, Acute, Marked
Spleen		Inflammation	Chronic, Focal, Marked
		Necrosis	Diffuse, Minimal

Note: [INFLAMMATION] TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 4

SEX: Female

DAY ON TEST: 627

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 3-6,4-21,5-22,6-23,7-24,8-25]
 [Degeneration TGLS = 3-6,4-21,5-22,6-23,7-24,8-25]
 [Fibrosis TGLS = 3-6,4-21,5-22,6-23,7-24,8-25]
 [Hyperplasia TGLS = 3-6,4-21,5-22,6-23,7-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 100

TRT#: 4

SEX: Female

DAY ON TEST: 627

DOSE: 8 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-21,6-23,7-24]

[Vacuolization Cytoplasmic TGLS = 3-6,4-21,5-22,6-23,7-24,8-25]

Mammary Gland

Duct

Cyst

Pituitary Gland

Pars Distalis

Cyst

Note: CYST TGLs = 9-1

Spleen

Hematopoietic Cell Proliferation

Marked

Uterus

Polyp Stromal

Multiple

Note: POLYP STROMAL TGLs = 1-26,2-27

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:05

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 6

SEX: Female

DAY ON TEST: 654

DOSE: 4 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Bronchial

Lymph Node - Mandibular

Lymph Node - Mediastinal

Lymph Node - Mesenteric

Nose

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Focal Cellular Change

Clitoral Gland

Adenoma

Note: ADENOMA TGLs = 1-8

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Chronic, Mild

Liver

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Marked

Hepatocyte

Cytomegaly

Mild

Hepatocyte

Degeneration

Multifocal, Mild

Biliar Tract

Fibrosis

Multifocal, Marked

Biliar Tract

Hyperplasia

Multifocal, Marked

Hepatocyte

Hyperplasia

Nodular, Multifocal, Mild

Biliar Tract

Inflammation

Chronic, Multifocal, Marked

Biliar Tract

Metaplasia

Marked

Hepatocyte

Necrosis

Multifocal, Mild

Kupffer Cell

Pigmentation

Multifocal, Mild

Hepatocyte

Vacuolization Cytoplasmic

Mild

Note: CHOLANGIOCARC TGLs = 4-6+21,5-22,6-23,7-24,8-25

[Cytomegaly TGLs = 4-6+21,5-22,6-23,7-24,8-25]

[Degeneration TGLs = 4-6+21,5-22,6-23,7-24,8-25]

[Fibrosis TGLs = 4-6+21,5-22,6-23,7-24,8-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 101	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Dead	DAY ON TEST: 654 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 4-6+21,5-22,6-23,7-24,8-25]

Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Congestion	Minimal
		Hematopoietic Cell Proliferation	Mild
Uterus		Hyperplasia	Cystic, Mild
		Polyp Stromal	Multiple

Note: POLYP STROMAL TGLs = 2-26,3-27

PRIMARY CAUSE OF DEATH -

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:05
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 102

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Bone	Cranium	Hypertrophy	Focal, Mild
Note: HYPERTROPHY TGLs = 8-27			
Bone Marrow		Hyperplasia	Mild
Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 6-26			
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Mild
		Hematopoietic Cell Proliferation	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 1-21,2-22,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 102

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 1-21,2-22,3-23]

[Fibrosis TGLS = 1-21,2-22,3-23]

[Metaplasia TGLS = 1-21,2-22,3-23]

[Necrosis TGLS = 1-21,2-22,3-23]

Lung		Granuloma	Multiple, Minimal
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 9-8		
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ANGIECTASIS	TGLs = 10-1		
Note: ADENOMA	TGLs = 10-1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus
Uterus

Bone
Heart
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pancreas
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Intestine Large
Kidney
Liver

Rectum

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte

Kupffer Cell
Hepatocyte

Hyperplasia
Parasite Metazoan
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hematopoietic Cell Proliferation
Hemorrhage
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Neovascularization
Pigmentation
Vacuolization Cytoplasmic

Mild
Mild
Chronic, Minimal
Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Marked
Multifocal, Mild
Multifocal, Mild
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Mild
Multifocal, Mild
Mild

Note: HEMORRHAGE IS ON SLIDE 23.
[Cytomegaly TGLS = 4-21,6-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 4-21,6-23]
[Fibrosis TGLS = 4-21,6-23]
[Inflammation TGLS = 4-21,6-23]
[Vacuolization Cytoplasmic TGLS = 4-21,6-23]

Lung		Infiltration Cellular Pigmentation	Histiocyte, Focal, Mild Cholesterol, Focal, Mild
Lymph Node	Pancreatic Renal	Ectasia Ectasia	Moderate Marked
Note: ECTASIA	TGLs = 2-7		
Note: ECTASIA	TGLs = 9-27		
Mammary Gland	Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-26		
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Angiectasis Cyst Hyperplasia	Mild Mild
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 3-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lymph Node - Bronchial
Ovary
Skin
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Uterus

OBSERVATIONS

Bone Marrow
Clitoral Gland
Note: ADENOMA TGLs = 1-25

Kidney Cortex

Liver
Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hyperplasia
Adenoma
Fibrosis
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hematopoietic Cell Proliferation
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Focal, Mild
Chronic, Mild
Multiple
Multiple, Marked
Moderate
Multifocal, Mild
Multifocal, Moderate
Multifocal, Mild
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Marked
Multifocal, Mild
Multifocal, Mild
Moderate

Note: INFLAMMATION TGLs = 4-21,5-22,6-23
[Cytomegaly TGLs = 3-6+21+22+23+24]
[Degeneration TGLs = 4-21,6-23]
[Fibrosis TGLs = 4-21,5-22,6-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 104	TRT#: 6	SEX: Female	DAY ON TEST: 732
	DOSE: 4 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-21,5-22,6-23]

[Vacuolization Cytoplasmic TGLS = 4-21,5-22,6-23]

Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Lymph Node	Mediastinal	Ectasia	Mild
	Pancreatic	Ectasia	Marked
Note: ECTASIA	TGLs = 2-26		
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 6

SEX: Female

DAY ON TEST: 627

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Nose
Pituitary Gland
Trachea

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Ovary
Salivary Glands
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Pancreas
Skin
Uterus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Mammary Gland
Parathyroid Gland
Thymus

OBSERVATIONS

Adrenal Gland
Kidney

Cortex

Hematopoietic Cell Proliferation
Nephropathy
Sarcoma

Mild
Chronic, Mild

Note: [SARCOMA] TGLs = 1-5+25
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Marked
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Multifocal, Mild
Moderate

[Cytomegaly TGLS = 7-21+22+23+24]
[Degeneration TGLS = 3-21,5-23,6-24]
[Fibrosis TGLS = 3-21,5-23,6-24]
[Hyperplasia TGLS = 3-21,5-23,6-24]
[Necrosis TGLS = 3-21,5-23,6-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 105	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 627 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 3-21,5-23,6-24]

Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Glandular	Edema	Diffuse, Moderate
	Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Subacute, Moderate
	Forestomach	Perforation	Marked
	Glandular	Ulcer	Moderate
Note: PERFORATION	TGLs = 2-4		
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:06
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 106

TRT#: 6

SEX: Female

DAY ON TEST: 557

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-61		
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 8-21,9-22,10-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 106

TRT#: 6

SEX: Female

DAY ON TEST: 557

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 8-21,9-22,10-23]

[Fibrosis TGLS = 8-21,9-22,10-23]

[Hyperplasia TGLS = 7-21+22+23+24]

[Necrosis TGLS = 8-21,9-22,10-23]

[Vacuolization Cytoplasmic TGLS = 8-21,9-22,10-23]

Lung	Mediastinum	Leukemia Mononuclear
		Leukemia Mononuclear
Lymph Node	Bronchial	Leukemia Mononuclear
	Mandibular	Leukemia Mononuclear
	Mediastinal	Leukemia Mononuclear
	Mesenteric	Leukemia Mononuclear
	Pancreatic	Leukemia Mononuclear
	Pancreatic	Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 5-27	
Mammary Gland	Duct	Cyst
		Leukemia Mononuclear
Note: CYST	TGLs = 2-8	
Mesentery		Leukemia Mononuclear
Ovary		Cyst
		Leukemia Mononuclear
Pituitary Gland	Pars Distalis	Leukemia Mononuclear
Spleen		Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 6-2	
Thymus		Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 12-28	
Uterus		Leukemia Mononuclear
		Polyp Stromal
Note: LEUKEMIA MONUC	TGLs = 3-7,4-26	
Note: POLYP STROMAL	TGLs = 4-26	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 561

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Clitoral Gland		Adenoma	
	Duct	Cyst	
Note: ADENOMA	TGLs = 1-25		
Note: CYST	TGLs = 1-25		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: INFLAMMATION	TGLs = 6-21,7-22,8-23,9-24		
Note: CYST	TGLs = 8-23		
Note: HYPERPLASIA	TGLs = 6-21,7-22,8-23,9-24		
Note: VACUOLIZ CYTO	TGLs = 10-21+22+23+24		
Note: FIBROSIS	TGLs = 6-21,7-22,8-23,9-24		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 107	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 561 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: CHOLANGIOCARC Lymph Node	TGLs = 6-21,7-22,8-23,9-24 Pancreatic Pancreatic	Ectasia Hyperplasia	Marked Mild
Note: ECTASIA Note: HYPERPLASIA Mammary Gland	TGLs = 3-27 TGLs = 3-27 Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA Mesentery	TGLs = 2-26 Fat	Necrosis	Multifocal, Marked
Note: NECROSIS Nose	TGLs = 4-28,5-29 Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Congestion	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus
Uterus

MISSING

Pituitary Gland

OBSERVATIONS

Bone
Note: HYPERTROPHY TGLs = 7-26
Kidney
Liver

Cranium

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte

Kupffer Cell
Hepatocyte

Hypertrophy

Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hemorrhage
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Neovascularization
Pigmentation
Vacuolization Cytoplasmic

Focal, Mild

Chronic, Moderate
Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Marked
Focal, Mild
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Mild
Multifocal, Mild
Moderate

Note: NEOVASCULARIZATION OF CYST IS ON SLIDE 23.
[Cytomegaly TGLS = 2-22,4-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 108

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 1-21,3-23,5-25]

[Fibrosis TGLS = 1-21,3-23,5-25]

[Hyperplasia TGLS = 1-21,3-23,5-25]

[Necrosis TGLS = 3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,3-23,5-25]

Mammary Gland

Duct

Cyst

Note: CYST TGLs = 6-8

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Parathyroid Gland	Salivary Glands	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Cytomegaly TGLS = 1-21,2-22,3-23,4-24,6-25]			
[Degeneration TGLS = 1-21,3-23]			
[Fibrosis TGLS = 1-21,2-22,3-23,4-24,6-25]			
[Necrosis TGLS = 1-21,2-22,3-23,4-24,6-25]			
[Vacuolization Cytoplasmic TGLS = 1-21,2-22,3-23,4-24,6-25]			
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 109	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-1	Pars Distalis	Angiectasis	Moderate
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 5-26			
Thyroid Gland	Follicular Cel	Adenocarcinoma	
Note: [ADENOCARC] TGLs = 8-1			
Uterus		Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 7-7		Polyp Stromal	
Note: POLYP STROMAL TGLs = 7-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 110

TRT#: 6

SEX: Female

DAY ON TEST: 541

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland	Cortex	Necrosis	Multifocal, Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Hematopoietic Cell Proliferation	Multifocal, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 2-21,4-23]
 [Degeneration TGLS = 2-21,4-23]
 [Fibrosis TGLS = 2-21,4-23]
 [Necrosis TGLS = 2-21,4-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 110	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 541 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 2-21,4-23]

Mammary Gland		Adenocarcinoma Cyst	
Note: ADENOCARC	TGLs = 6-25		
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 7-26		
Pancreas		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Note: ANGIECTASIS	TGLs = 8-1		
Note: ADENOMA	TGLs = 8-1		
Note: PIGMENT	TGLs = 8-1		
Spleen		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 111

TRT#: 6

SEX: Female

DAY ON TEST: 421

DOSE: 4 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	
	Biliar Tract	Cyst	Multiple, Mild
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Mild
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Mild
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: TGL 5 AND 7 ARE ON SLIDES III AND V.

[Cytomegaly TGLS = 5,7]

[Degeneration TGLS = 5]

[Fibrosis TGLS = 5,7]

[Vacuolization Cytoplasmic TGLS = 5,7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 111	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Dead	DAY ON TEST: 421 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas		Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Spleen		Hematopoietic Cell Proliferation	Marked
Uterus	Cervix	Sarcoma	

Note: NEOPLASM IS ON SLIDE 7-C.

Note: [SARCOMA] TGLs = 2

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Skin
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Ovary
Spleen
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Thymus

OBSERVATIONS

Heart
Kidney
Note: NEPHROPATHY TGLs = 7
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Minimal
Chronic, Marked
Multiple
Multiple, Marked
Mild
Multifocal, Moderate
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Multifocal, Mild
Marked

[Cytomegaly TGLS = 10-6+21+22+24]
[Degeneration TGLS = 11-21,12-22,13-23,14-24]
[Fibrosis TGLS = 11-21,12-22,13-23,14-24]
[Hyperplasia TGLS = 11-21,12-22,13-23,14-24]
[Necrosis TGLS = 11-21,13-23]
[Vacuolization Cytoplasmic TGLS = 11-21,12-22,13-23,14-24]

Lung

Granuloma

Multiple, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 112	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 703 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
	Fat, Mediastinum	Infiltration Cellular Necrosis	Histiocyte, Multifocal, Mild Multifocal, Mild
Note: INFILTRAT CELL TGLs = 15-2			
Lymph Node	Pancreatic	Ectasia	Moderate
Note: ECTASIA TGLs = 5-27			
Mammary Gland	Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA TGLs = 2-25			
Note: CYST TGLs = 1-8			
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Pancreas		Adenoma	
Note: ADENOMA TGLs = 6-28			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA TGLs = 16-1			
Note: PIGMENT TGLs = 16-1			
Note: ANGIECTASIS TGLs = 16-1			
Stomach	Glandular	Edema	Diffuse, Mild
	Forestomach	Hyperplasia	Marked
	Forestomach	Inflammation	Subacute, Marked
	Forestomach	Ulcer	Multiple, Marked
	Glandular	Ulcer	Multiple, Moderate
Note: ULCER TGLs = 9-4			
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-26			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 702

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Clitoral Gland	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Thyroid Gland	Tooth
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Nephropathy	Chronic, Moderate
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Marked
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: CHOLANGIOCARC TGLs = 8-21,9-22,10-23,11-24
 [Cytomegaly TGLs = 8-21,9-22,10-23,11-24]
 [Degeneration TGLs = 8-21,9-22,10-23,11-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 702

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 8-21,10-23]
[Necrosis TGLS = 8-21,10-23]
[Vacuolization Cytoplasmic TGLS = 12-25]

Lung		Carcinoma	Metastatic (Zymbal'S Gland)
		Leukemia Mononuclear	
		Necrosis	Multifocal, Moderate
Note: CARCINOMA	TGLs = 13-2		
Note: NECROSIS	TGLs = 15-29		
Lymph Node		Ectasia	Moderate
		Ectasia	Moderate
		Leukemia Mononuclear	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-5		
Note: ECTASIA	TGLs = 4-5		
Note: ECTASIA	TGLs = 6-27		
Note: LEUKEMIA MONUC	TGLs = 6-27		
Mammary Gland		Cyst	
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 5-26		
Note: CYST	TGLs = 3-8		
Pituitary Gland		Adenoma	
		Angiectasis	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 16-1		
Note: ADENOMA	TGLs = 16-1		
Note: ANGIECTASIS	TGLs = 16-1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6		
Stomach		Erosion	Multiple, Mild
Thymus		Carcinoma	Metastatic (Zymbal'S Gland)
Note: CARCINOMA	TGLs = 15-29		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 702

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Carcinoma

Note: CARCINOMA

TGLs = 14-28+28-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 6

SEX: Female

DAY ON TEST: 655

DOSE: 4 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Skin
Thyroid Gland

Bone
Heart
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Pituitary Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Clitoral Gland
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Inflammation
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Neovascularization
Pigmentation
Thrombosis
Vacuolization Cytoplasmic

Suppurative, Acute, Focal, Mild
Chronic, Mild
Multiple
Multiple, Marked
Mild
Multifocal, Mild
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Moderate
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Mild
Multifocal, Mild
Mild

Note: HYPERPLASIA TGLs = 5-21,7-22,8-23,9-24,10-25
[Cytomegaly TGLs = 6-26]
[Degeneration TGLs = 5-21,7-22,8-23,9-24,10-25]
[Hyperplasia TGLs = 5-21,7-22,8-23,9-24,10-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 6

SEX: Female

DAY ON TEST: 655

DOSE: 4 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 5-21,7-22,8-23,9-24,10-25]

[Vacuolization Cytoplasmic TGLS = 5-21,7-22,8-23,9-24,10-25]

Mammary Gland

Duct

Cyst

Note: CYST

TGLs = 1-8

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 115

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Trachea	Uterus	

MISSING

Thymus	Urinary Bladder
--------	-----------------

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Clitoral Gland		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 3-21,5-23]

[Degeneration TGLS = 3-21,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-23,5-23]

[Necrosis TGLS = 3-21,5-23,6-24]

[Vacuolization Cytoplasmic TGLS = 3-21,5-23]

Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Adenoma	
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 1-25		
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Erosion	Mild
	Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Subacute, Moderate
	Forestomach	Leukemia Mononuclear	
	Forestomach	Perforation	Marked
Note: PERFORATION	TGLs = 2-4		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 116

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Bone	Cranium	Hypertrophy	Focal, Mild
	Femur	Hypertrophy	Focal, Moderate
Note: HYPERTROPHY	TGLs = 8-26		
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
		Developmental Malformation	Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hematopoietic Cell Proliferation	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

[Cytomegaly TGLS = 7-6+21+22+23+24+25]

[Degeneration TGLS = 2-6+21,4-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 2-6+21,4-23]

[Hyperplasia TGLS = 2-6+21,4-23]

[Necrosis TGLS = 2-6+21,4-23]

[Pigmentation TGLS = 6-25]

[Vacuolization Cytoplasmic TGLS = 2-6+21,4-23]

Lung		Granuloma	Multiple, Minimal
	Fat, Mediastinum	Necrosis	Multifocal, Mild
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	

Note: ANGIECTASIS TGLs = 9-1

Note: ADENOMA TGLs = 9-1

Note: CYST TGLs = 9-1

Spleen		Congestion	Mild
		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus		Polyp Stromal	

Note: POLYP STROMAL TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 117

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Eye	Retina	Cataract	Marked
		Degeneration	Marked
		Hemorrhage	Moderate
Note: CATARACT	TGLs = 1-44		
Note: HEMORRHAGE	TGLs = 1-44		
Note: DEGEN	TGLs = 1-44		
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 117

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 7-25]
[Degeneration TGLS = 7-25]
[Fibrosis TGLS = 3-21,4-22,5-23,6-24]
[Hyperplasia TGLS = 3-21,4-22,5-23,6-24]
[Hyperplasia TGLS = 3-21,4-22,5-23,6-24]
[Necrosis TGLS = 3-21,4-22,5-23,6-24]
[Vacuolization Cytoplasmic TGLS = 3-21,4-22,5-23,6-24]

Mammary Gland

Duct

Cyst

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-26

Nose

Foreign Body

Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Mild

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone	Cranium	Hypertrophy	Focal, Mild
Note: HYPERTROPHY	TGLs = 13-27		
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Nephropathy	Chronic, Moderate
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
		Developmental Malformation	Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: CYST	TGLs = 4-6+21,5-22,6-23,7-23-1,8-24		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DEVELOP MALFOR TGLs = 9-25

Note: FIBROSIS TGLs = 4-6+21,5-22,6-23,7-23-1,8-24

[Cytomegaly TGLS = 4-6+21,5-22,6-23,7-23-1,8-24]

[Degeneration TGLS = 4-6+21,5-22,6-23,7-23-1,8-24]

[Hyperplasia TGLS = 4-6+21,5-22,6-23,7-23-1,8-24]

[Vacuolization Cytoplasmic TGLS = 10-25]

Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 11-26

Mammary Gland	Duct	Cyst	
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Note: CYST TGLs = 1-8

Mesentery		Leukemia Mononuclear	
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	

Spleen		Fibrosis	Focal, Marked
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Note: FIBROSIS TGLs = 2-6

Note: LEUKEMIA MONUC TGLs = 3-6+6-1

Tongue		Squamous Cell Papilloma	
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Note: PAPILLOMA SQUA TGLs = 12-28

Vagina		Inflammation	Suppurative, Acute, Mild
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PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
[Cytomegaly TGLS = 2-22,5-25]			
[Degeneration TGLS = 1-21,3-23,4-24]			
[Fibrosis TGLS = 1-21,3-23,4-24]			
[Hyperplasia TGLS = 1-21,3-23,4-24]			
[Necrosis TGLS = 1-21,3-23]			
[Vacuolization Cytoplasmic TGLS = 1-21,3-23,4-24]			
Lung	Fat, Mediastinum	Necrosis	Multifocal, Mild
Mammary Gland	Duct	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 6-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 120

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Pancreas	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone	Femur	Hypertrophy	Focal, Moderate
Note: HYPERTROPHY	TGLs = 11-27		
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hepatocellular Adenoma	
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 120	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Hepatocyte	Necrosis	Multifocal, Marked
Kupffer Cell	Pigmentation	Multifocal, Mild
	Pigmentation	Hematoidin, Mild
	Pigmentation	Hemosiderin, Multifocal, Mild
Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: HYPERPLASIA TGLs = 1-21,3-23
 Note: FIBROSIS TGLs = 1-21,3-23
 [Cytomegaly TGLs = 5-26]
 [Degeneration TGLs = 1-21,3-23]
 [Fibrosis TGLs = 2-22,4-24,5-25]
 [Hyperplasia TGLs = 5-25]
 [Hyperplasia TGLs = 5-25]
 [Necrosis TGLs = 1-21,3-23]
 [Vacuolization Cytoplasmic TGLs = 1-21,3-23]

Lung	Granuloma Infiltration Cellular Leukemia Mononuclear	Multiple, Mild Histiocyte, Multifocal, Mild
Fat, Mediastinum	Necrosis	Multifocal, Mild

Note: INFILTRAT CELL TGLs = 9-2
 Mammary Gland

Duct	Cyst Fibroadenoma	
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Note: FIBROADENOMA TGLs = 7-26
 Note: CYST TGLs = 6-8

Ovary	Leukemia Mononuclear	
Pituitary Gland	Adenoma	
	Angiectasis	Moderate
Spleen	Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild

Note: HEMA CELL PROL TGLs = 10-6
 Note: LEUKEMIA MONUC TGLs = 10-6
 Thyroid Gland

C Cell	Adenoma	
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 6

SEX: Female

DAY ON TEST: 388

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Mammary Gland

OBSERVATIONS

Bone Marrow		Hyperplasia	Moderate
Clitoral Gland		Carcinoma	
Note: TGL 1 IS ON SLIDE I.			
Note: CARCINOMA TGLs = 1			
Liver		Cholangiocarcinoma	
	Biliar Tract	Cyst	Multiple, Mild
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Mild
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: TGL 4 AND 5 ARE ON SLIDES III AND IV.

[Cytomegaly TGLS = 4,5]

[Degeneration TGLS = 5]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 6

SEX: Female

DAY ON TEST: 388

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4,5]

[Hyperplasia TGLS = 5]

[Vacuolization Cytoplasmic TGLS = 4,5]

Lymph Node

Pancreatic

Ectasia

Moderate

Note: ECTASIA TGLs = 3

Note: TGL 3 IS ON SLIDE II.

Spleen

Hematopoietic Cell Proliferation

Marked

Note: HEMA CELL PROL TGLs = 2-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC	TGLs = 3-5		
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Marked
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 122

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 5-6+21,7-23,8-24]
[Degeneration TGLS = 5-6+21,7-23]
[Fibrosis TGLS = 5-6+21,7-23,8-24]
[Metaplasia TGLS = 5-21,6-22,7-23,8-24]
[Necrosis TGLS = 5-6+21,7-23,8-24]
[Vacuolization Cytoplasmic TGLS = 5-6+21,7-23,8-24]

Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-25		
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6-1		
Uterus	Cervix	Cyst	
Note: CYST	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 123

TRT#: 6

SEX: Female

DAY ON TEST: 549

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Lymph Node - Bronchial Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hemorrhage	
Eye		Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 2-26		
Kidney		Nephropathy	Chronic, Moderate
Lacrimal Gland		Inflammation	Suppurative, Chronic, Moderate
Note: INFLAMMATION	TGLs = 7-27		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 6

SEX: Female

DAY ON TEST: 549

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 3-21,5-23]

[Degeneration TGLS = 3-21,5-23]

[Fibrosis TGLS = 3-21,5-23]

[Necrosis TGLS = 3-21,5-23]

[Vacuolization Cytoplasmic TGLS = 3-21,5-23]

Lymph Node

Mandibular

Ectasia

Mild

Mandibular

Hyperplasia

Marked

Mammary Gland

Duct

Cyst

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-25

Nose

Nasolacrim Dct

Hyperkeratosis

Mild

Nasolacrim Dct

Inflammation

Suppurative, Acute, Mild

Inflammation

Suppurative, Acute, Moderate

Squamous Cell Carcinoma

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Moderate

Note: ANGIECTASIS TGLs = 8-1

Note: ADENOMA TGLs = 8-1

Stomach

Forestomach

Erosion

Mild

Forestomach

Hyperplasia

Moderate

Forestomach

Inflammation

Subacute, Mild

Note: INFLAMMATION TGLs = 10-5-1

Note: HYPERPLASIA TGLs = 10-5-1

Note: EROSION TGLs = 10-5-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pancreas
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Islets, Pancreatic
Lymph Node - Mesenteric
Salivary Glands
Thymus

Clitoral Gland
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Skin
Thyroid Gland

OBSERVATIONS

Bone
Note: HYPERTROPHY TGLs = 6-27
Bone Marrow
Heart
Intestine Large
Kidney
Liver

Note: FIBROSIS TGLs = 2-21,4-23
[Cytomegaly TGLs = 2-21,4-23]

Cranium

Rectum

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hypertrophy

Myelofibrosis
Cardiomyopathy
Parasite Metazoan
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Focal, Moderate

Mild
Mild
Mild
Chronic, Marked
Multiple
Multiple, Marked
Mild
Multifocal, Mild
Multifocal, Marked
Multiple, Minimal
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked

Marked
Multifocal, Mild
Multifocal, Mild
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 124

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 2-21,3-22,4-23,5-24]

[Fibrosis TGLS = 2-21,4-23]

[Vacuolization Cytoplasmic TGLS = 2-21,4-23]

Lung	Fat, Mediastinum	Necrosis	Multifocal, Mild
Mammary Gland	Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-26			
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: PIGMENT TGLs = 7-1			
Note: ANGIECTASIS TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			
Note: CYST TGLs = 7-1			
Spleen		Leukemia Mononuclear	
Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:06
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 125

TRT#: 6

SEX: Female

DAY ON TEST: 708

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Ovary	Pancreas	Salivary Glands
Skin	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	Mild
	Cortex	Necrosis	Diffuse, Mild
Bone Marrow		Hyperplasia	Mild
Brain		Compression	Mild
Note: COMPRESSION	TGLs = 16-1		
Clitoral Gland	Duct	Cyst	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 8-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Hematopoietic Cell Proliferation	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 708

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Kupffer Cell
Hepatocyte

Pigmentation
Vacuolization Cytoplasmic

Multifocal, Mild
Mild

Note: FIBROSIS TGLs = 9-21,11-23

Note: NECROSIS TGLs = 13-6+21+22+24

[Cytomegaly TGLS = 9-21,11-23]

[Degeneration TGLS = 9-21,11-23]

[Fibrosis TGLS = 9-21,11-23]

[Vacuolization Cytoplasmic TGLS = 9-21,11-23]

Lung

Granuloma
Infiltration Cellular
Pigmentation

Multiple, Mild
Histiocyte, Multifocal, Mild
Cholesterol, Multifocal, Mild

Note: GRANULOMA TGLs = 14-2

Note: PIGMENT TGLs = 14-2

Note: INFILTRAT CELL TGLs = 14-2+2-11

Lymph Node

Pancreatic

Ectasia

Mild

Note: ECTASIA TGLs = 6-27

Mammary Gland

Duct

Cyst

Note: CYST TGLs = 1-8

Nose

Nasolacrim Dct

Inflammation

Subacute, Mild

Parathyroid Gland

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Marked

Pars Distalis

Pigmentation

Hemosiderin, Mild

Note: ANGIECTASIS TGLs = 15-1

Note: ADENOMA TGLs = 15-1

Note: PIGMENT TGLs = 15-1

Spleen

Hematopoietic Cell Proliferation

Marked

Note: HEMA CELL PROL TGLs = 7-6

Stomach

Forestomach

Hyperplasia

Mild

Forestomach

Inflammation

Subacute, Mild

Forestomach

Ulcer

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 6

SEX: Female

DAY ON TEST: 708

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Multifocal, Mild

Uterus

Prolapse

Moderate

Note: PROLAPSE TGLs = 4-25+26

Vagina

Sarcoma

Note: [SARCOMA] TGLs = 2,3,5-7+7.1+25+26

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Skin
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Urinary Bladder

Bone
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mediastinal
Salivary Glands
Thymus

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone Marrow
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Hyperplasia
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Moderate
Multiple
Multiple, Marked
Mild
Multifocal, Mild
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Multifocal, Mild
Mild

Note: CYST TGLs = 1-21,2-22,3-23,4-24

Note: INFLAMMATION TGLs = 1-21,2-22,3-23,4-24

[Cytomegaly TGLs = 1-21,2-22,3-23,4-24]

[Fibrosis TGLs = 1-21,2-22,3-23,4-24]

[Necrosis TGLs = 1-21,2-22,3-23,4-24]

Lung

Granuloma

Multiple, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 126	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: GRANULOMA TGLs = 7-2 Note: INFILTRAT CELL TGLs = 7-2 Mammary Gland Nose Ovary Note: CYST TGLs = 5-7 Pituitary Gland Spleen Thyroid Gland Uterus Note: POLYP STROMAL TGLs = 6-7	Duct Nasolacrim Dct Pars Distalis Pars Distalis Pars Distalis C Cell C Cell	Infiltration Cellular Cyst Inflammation Cyst Adenoma Angiectasis Pigmentation Hematopoietic Cell Proliferation Adenoma Hyperplasia Polyp Stromal	Histiocyte, Focal, Mild Subacute, Mild Moderate Hemosiderin, Mild Mild Multifocal, Mild
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PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 6

SEX: Female

DAY ON TEST: 635

DOSE: 4 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Bronchial	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Islets, Pancreatic	Lymph Node - Mandibular
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Multifocal, Mild
Bone Marrow		Hyperplasia	Mild
		Leukemia Mononuclear	
		Myelofibrosis	Mild
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 127	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Dead	DAY ON TEST: 635 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Cytomegaly TGLS = 5-21,7-23]		
	[Degeneration TGLS = 5-21,7-23]		
	[Fibrosis TGLS = 5-21,7-23]		
	[Necrosis TGLS = 5-21,7-23,8-24]		
	[Vacuolization Cytoplasmic TGLS = 5-21,7-23]		
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-26		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: CYST	TGLs = 4-1		
Note: ADENOMA	TGLs = 4-1		
Note: PIGMENT	TGLs = 4-1		
Note: ANGIECTASIS	TGLs = 4-1		
Spleen		Fibrosis	Focal, Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
Note: LEUKEMIA MONUC	TGLs = 3-6		
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 2-27		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 128

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland	Duct	Cyst	
		Inflammation	Subacute, Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

[Cytomegaly TGLS = 5-21,6-22,9-24,10-25]

[Degeneration TGLS = 4-21,7-23,8-23]

[Fibrosis TGLS = 4-21,7-23,8-23]

[Hyperplasia TGLS = 4-21,7-23,8-23]

[Necrosis TGLS = 4-21,7-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 4-21,7-23,8-23]

Lung		Infiltration Cellular Pigmentation	Histiocyte, Focal, Mild Cholesterol, Focal, Mild
Note: PIGMENT TGLs = 11-2 Note: INFILTRAT CELL TGLs = 11-2			
Lymph Node	Pancreatic	Ectasia	Marked
Note: ECTASIA TGLs = 2-7-1			
Mammary Gland	Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-8			
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 3-26			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Focal, Mild
Spleen		Congestion Hematopoietic Cell Proliferation	Mild Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 129

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
	[Cytomegaly TGLS = 4-6+21+22+23+24]		
	[Degeneration TGLS = 5-21,6-22,7-23]		
	[Fibrosis TGLS = 5-21,6-22,7-23]		
	[Hyperplasia TGLS = 5-21,6-22,7-23]		
	[Hyperplasia TGLS = 5-21,7-23]		
	[Vacuolization Cytoplasmic TGLS = 5-21,6-22,7-23]		
Lung		Granuloma	Multiple, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 129	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Fat, Mediastinum	Necrosis Pigmentation	Multifocal, Mild Cholesterol, Focal, Minimal
Note: GRANULOMA TGLs = 9-2 Lymph Node	Pancreatic	Ectasia	Moderate
Note: ECTASIA TGLs = 3-26 Mammary Gland	Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-25 Note: CYST TGLs = 2-8 Nose	Mucosa	Cyst	
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Mild
Spleen		Congestion Hematopoietic Cell Proliferation	Mild Mild
Thyroid Gland	C Cell	Adenoma	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
Clitoral Gland		Adenoma	
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked

Note: CHOLANGIOCARC TGLs = 1-21,3-23,4-24

Note: CYST TGLs = 1-21,3-23

Note: INFLAMMATION TGLs = 1-21,3-23,4-24

Note: HYPERPLASIA TGLs = 1-21,3-23,4-24

Note: VACUOLIZ CYTO TGLs = 2-22,5-25

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 130	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS Lung	TGLs = 1-21,3-23,4-24		Granuloma Infiltration Cellular Cyst	Multiple, Minimal Histiocyte, Focal, Minimal
Mammary Gland Note: CYST	TGLs = 6-8	Duct		
Nose		Nasolacrim Dct	Inflammation	Subacute, Minimal
Pituitary Gland		Pars Distalis Pars Distalis	Adenoma Angiectasis	Moderate
Spleen			Congestion Hematopoietic Cell Proliferation	Mild Mild
Thyroid Gland		C Cell	Hyperplasia	Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: CHOLANGIOCARC TGLs = 2-6+21,3-22,4-23,5-24,6-25

[Degeneration TGLS = 2-6+21,3-23,4-23,5-24,6-25]

[Fibrosis TGLS = 2-6+21,3-22,4-23,5-24,6-25]

[Necrosis TGLS = 2-6+21,3-22,4-23,5-24,6-25]

[Vacuolization Cytoplasmic TGLS = 2-6+21,3-22,4-23,5-24,6-25]

Lymph Node	Pancreatic	Ectasia	Moderate
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 131	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: PANCREATIC NODE IS ON SLIDE 23.			
Mammary Gland	Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-26			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Minimal
Uterus	Cervix	Cyst	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Harderian Gland		Inflammation	Chronic, Focal, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hepatocellular Adenoma	
	Hepatocyte	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: INFLAMMATION TGLs = 5-21,7-23

Note: [HEPATOCLR ADEN] TGLs = 9-25

Note: FIBROSIS TGLs = 5-21,7-23

Note: HYPERPLASIA TGLs = 5-21,6-22,7-23

[Cytomegaly TGLs = 5-21,6-22,7-23]

[Fibrosis TGLs = 5-21,7-23]

Lung	Fat, Mediastinum	Necrosis	Multifocal, Moderate
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 132	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 688 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS Lymph Node	TGLs = 10-29	Mediastinal Pancreatic	Ectasia Ectasia	Mild Moderate
Note: ECTASIA Mammary Gland	TGLs = 4-28	Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA Note: CYST Pituitary Gland	TGLs = 2-26 TGLs = 1-8	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Moderate Hemosiderin, Mild
Note: PIGMENT Note: ANGIECTASIS Note: ADENOMA Spleen	TGLs = 11-1 TGLs = 11-1 TGLs = 11-1		Congestion Hematopoietic Cell Proliferation	Minimal Minimal
Uterus Note: POLYP STROMAL	TGLs = 3-27		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pancreas
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus

OBSERVATIONS

Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hematopoietic Cell Proliferation
Hepatocellular Adenoma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Chronic, Mild
Multiple
Multiple, Marked
Mild
Multifocal, Mild
Multifocal, Marked
Multiple, Mild
Multifocal, Mild

Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Multifocal, Mild
Mild

Note: INFLAMMATION TGLs = 1-21,3-23
[Cytomegaly TGLS = 1-21,3-23,4-24]
[Degeneration TGLS = 1-21,3-23]
[Fibrosis TGLS = 1-21,3-23]
[Necrosis TGLS = 1-21,3-23,4-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 133 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 732
DOSE: 4 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

Lung		Granuloma	Multiple, Mild
Lymph Node	Pancreatic	Ectasia	Mild
Note: PANCREATIC NODE IS ON SLIDE 23.			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: CYST TGLs = 5-8			
Note: FIBROADENOMA TGLs = 6-25			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: PIGMENT TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			
Note: ANGIECTASIS TGLs = 7-1			
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Uterus		Inflammation	Chronic, Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Clitoral Gland

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Bronchial

Lymph Node - Mandibular

Lymph Node - Mediastinal

Lymph Node - Mesenteric

Nose

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Brain

Granular Cell Tumor Malignant

Note: UNUSUAL NEOPLASM.

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Chronic, Mild

Liver

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Marked

Hepatocyte

Cytomegaly

Mild

Hepatocyte

Degeneration

Multifocal, Mild

Biliar Tract

Fibrosis

Multifocal, Marked

Biliar Tract

Hyperplasia

Multifocal, Marked

Hepatocyte

Hyperplasia

Nodular, Multifocal, Mild

Biliar Tract

Inflammation

Chronic, Multifocal, Moderate

Biliar Tract

Metaplasia

Marked

Hepatocyte

Necrosis

Multifocal, Mild

Kupffer Cell

Neovascularization

Mild

Hepatocyte

Pigmentation

Multifocal, Mild

Vacuolization Cytoplasmic

Moderate

[Cytomegaly TGLS = 8-24]

[Degeneration TGLS = 4-21,5-22,6-23,9-25]

[Fibrosis TGLS = 4-21,5-22,6-23,9-25]

[Hyperplasia TGLS = 4-21,5-22,6-23,7-23,9-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 134	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-21,6-23,7-23]
[Vacuolization Cytoplasmic TGLS = 4-21,5-22,6-23,9-25]

Mammary Gland	Duct	Cyst Fibroadenoma	Multiple
Note: CYST TGLs = 1-8 Note: FIBROADENOMA TGLs = 2-26,3-27			
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Moderate Hemosiderin, Moderate
Spleen		Congestion Hematopoietic Cell Proliferation	Mild Mild
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 6

SEX: Female

DAY ON TEST: 729

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Cytomegaly TGLS = 1-21+21-1,3-23,4-24]		
	[Degeneration TGLS = 1-21+21-1,3-23,4-24]		
	[Fibrosis TGLS = 1-21+21-1,3-23,4-24]		
	[Necrosis TGLS = 1-21+21-1,3-23,4-24]		
	[Vacuolization Cytoplasmic TGLS = 1-21+21-1,3-23,4-24]		
Lung		Granuloma	Multiple, Mild
Lymph Node	Mediastinal	Ectasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 135	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: PIGMENT	TGLs = 6-1		
Note: ADENOMA	TGLs = 6-1		
Note: CYST	TGLs = 6-1		
Note: ANGIECTASIS	TGLs = 6-1		
Salivary Glands		Atrophy	Multifocal, Mild
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL	TGLs = 5-6		
Note: CONGESTION	TGLs = 5-6		
Thyroid Gland	Follicle	Cyst	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 136

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Cytomegaly TGLS = 6-25]			
[Degeneration TGLS = 2-21,4-23]			
[Fibrosis TGLS = 2-21,4-23]			
[Hyperplasia TGLS = 2-21,4-23]			
[Necrosis TGLS = 2-21,4-23]			
[Vacuolization Cytoplasmic TGLS = 2-21,4-23]			
Mammary Gland		Adenocarcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 136

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOCARC	TGLs = 1-26	Duct	Cyst	
Pancreas		Pars Distalis	Atrophy	Focal, Mild
Pituitary Gland		Pars Distalis	Adenoma	
		Pars Distalis	Angiectasis	Mild
		Pars Distalis	Pigmentation	Hemosiderin, Mild
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Cytomegaly TGLS = 1-6+21,3-23]		
	[Degeneration TGLS = 1-6+21,2-22,3-23,4-24,5-25]		
	[Fibrosis TGLS = 1-6+21,2-22,3-23,4-24,5-25]		
	[Necrosis TGLS = 1-6+21,2-22,3-23,4-24,5-25]		
	[Vacuolization Cytoplasmic TGLS = 1-6+21,2-22,3-23,4-24,5-25]		
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 137

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Congestion

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Islets, Pancreatic
Nose
Salivary Glands
Thymus
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Ovary
Skin
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Intestine Large
Kidney
Liver

Cortex
Rectum

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Focal Cellular Change
Parasite Metazoan
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Marked
Multiple
Multiple, Marked
Mild
Multifocal, Mild
Multifocal, Marked
Multiple, Mild
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate

Marked
Multifocal, Mild
Multifocal, Mild
Marked

[Cytomegaly TGLS = 4-22,6-24,7-25]
[Degeneration TGLS = 3-21,4-22,5-23]
[Fibrosis TGLS = 3-21,4-22,5-23]
[Hyperplasia TGLS = 3-21,4-22,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 138	TRT#: 6	SEX: Female	DAY ON TEST: 732
	DOSE: 4 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-21,5-23]

[Vacuolization Cytoplasmic TGLS = 3-21,4-22,5-23]

Lung		Granuloma	Multiple, Mild
Note: GRANULOMA	TGLs = 8-2		
Lymph Node	Mesenteric	Ectasia	Mild
	Pancreatic	Ectasia	Moderate
Note: ECTASIA	TGLs = 2-27		
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-26		
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Spleen		Congestion	Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 462

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

Note: TGL 4,5,6, AND 8 ARE ON SLIDES I,II,III, AND V.

[Cytomegaly TGLS = 8]

[Degeneration TGLS = 4,5,6]

[Fibrosis TGLS = 4,5,6]

[Hyperplasia TGLS = 4,5,6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 139	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 462 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4,5,6] [Vacuolization Cytoplasmic TGLS = 4,5,6]			
Lung Note: INFILTRAT CELL TGLs = 9-4		Infiltration Cellular	Histiocyte, Multifocal, Mild
Nose		Inflammation	Suppurative, Acute, Moderate
Pituitary Gland	Pars Distalis	Squamous Cell Papilloma	
Spleen		Cyst	
		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 6

SEX: Female

DAY ON TEST: 591

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone
Intestine Large - Colon
Intestine Small - Jejunum
Salivary Glands
Thymus

Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Skin
Thyroid Gland

Esophagus
Intestine Small - Duodenum
Nose
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Blood
Note: LEUKEMIA MONUC TGLs = 1-61
Bone Marrow
Brain
Heart
Kidney

Liver

Cortex

Biliar Tract

Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Centrilobular
Hepatocyte
Kupffer Cell
Hepatocyte

Leukemia Mononuclear
Leukemia Mononuclear

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Nephropathy
Cholangiocarcinoma
Cyst
Cyst Multilocular
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Chronic, Mild
Multiple
Multiple, Marked

Moderate
Multifocal, Mild
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked

Marked
Mild
Multifocal, Mild
Multifocal, Mild
Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 6

SEX: Female

DAY ON TEST: 591

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 7-21,9-23]
[Degeneration TGLS = 7-21,9-23]
[Fibrosis TGLS = 7-21,9-23]
[Inflammation TGLS = 12-26]
[Necrosis TGLS = 7-21,8-22,9-23,10-24,11-25]
[Vacuolization Cytoplasmic TGLS = 7-21,9-23]

Lung		Hemorrhage	Multifocal, Mild
		Leukemia Mononuclear	
		Necrosis	Multifocal, Moderate
	Fat, Mediastinum		
Note: HEMORRHAGE	TGLs = 15-2		
Note: NECROSIS	TGLs = 14-28		
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 13-27		
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 3-8		
Ovary		Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 6

SEX: Female

DAY ON TEST: 714

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Brain		Compression	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Marked
Note: FIBROSIS TGLs = 3-27,5-22,6-23,7-24			
[Cytomegaly TGLS = 3-27,5-22,6-23,7-24]			
[Degeneration TGLS = 3-27,5-22,6-23,7-24]			
[Fibrosis TGLS = 4-21,8-25]			
[Necrosis TGLS = 3-27,5-22,6-23,7-24]			
[Vacuolization Cytoplasmic TGLS = 3-27,5-22,6-23,7-24]			
Lung	Alveolar Epith	Hyperplasia	Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 141	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 714 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

		Infiltration Cellular Pigmentation	Histiocyte, Multifocal, Mild Cholesterol, Multifocal, Mild
Note: INFILTRAT CELL TGLs = 10-2 Note: PIGMENT TGLs = 10-2 Note: HYPERPLASIA TGLs = 10-2 Mammary Gland		Adenocarcinoma Cyst	
Note: CYST TGLs = 2-8 Note: ADENOCARC TGLs = 1-26 Nose	Duct Nasolacrim Dct	Inflammation Atrophy	Subacute, Minimal Focal, Minimal
Pancreas Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Moderate Hemosiderin, Mild
Note: ANGIECTASIS TGLs = 11-1 Note: ADENOMA TGLs = 11-1 Note: PIGMENT TGLs = 11-1 Spleen		Congestion Hematopoietic Cell Proliferation	Minimal Minimal
Stomach Thyroid Gland	Glandular C Cell	Erosion Hyperplasia	Mild Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 142

TRT#: 6

SEX: Female

DAY ON TEST: 691

DOSE: 4 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 1-21,2-22,3-23,4-24]

[Degeneration TGLS = 1-21,3-23]

[Fibrosis TGLS = 1-21,2-22,3-23,4-24]

[Hyperplasia TGLS = 7-6+21+22+23+24]

[Necrosis TGLS = 1-21,2-22,3-23,4-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 142

TRT#: 6

SEX: Female

DAY ON TEST: 691

DOSE: 4 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 1-21,2-22,3-23,4-24]

Lung			Infiltration Cellular	Histiocyte, Multifocal, Moderate
			Leukemia Mononuclear	
Mammary Gland	Duct		Cyst	
Note: CYST	TGLs = 5-8			
Pituitary Gland	Pars Distalis		Adenoma	
	Pars Distalis		Angiectasis	Mild
Note: ADENOMA	TGLs = 8-1			
Note: ANGIECTASIS	TGLs = 8-1			
Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6			
Uterus			Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 402

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Uterus	

MISSING

Lymph Node - Bronchial	Lymph Node - Mediastinal
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OBSERVATIONS

Kidney	Transit Epithe	Hyperplasia	Marked
	Pelvis	Inflammation	Suppurative, Acute, Mild
	Papilla	Necrosis	Marked
Note: INFLAMMATION TGLs = 3-6			
Note: NECROSIS TGLs = 3-6			
Note: HYPERPLASIA TGLs = 3-6			
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Marked
	Kupffer Cell	Pigmentation	Multifocal, Mild
Note: HYPERPLASIA TGLs = 4,5,6,8			
Note: TGL 4,5,6,AND 8 ARE ON SLIDES I,II,III, AND V.			
[Degeneration TGLS = 4,5,6,8]			
[Fibrosis TGLS = 4,5,6,8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 6

SEX: Female

DAY ON TEST: 402

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4,5,6,8]

[Pigmentation TGLS = 4,5,6,8]

Lung

Note: INFILTRAT CELL TGLs = 9-4

Spleen

Urinary Bladder

Note: HYPERPLASIA TGLs = 2

Note: CALCUS GRO OBS TGLs = 1

Note: THE BLADDER IS ON SLIDE 6B.

Transit Epithe

Infiltration Cellular

Pigmentation

Calculus Gross Observation

Hyperplasia

Histiocyte, Multifocal, Mild

Hemosiderin, Moderate

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 6-6+21+22+25]

[Degeneration TGLS = 1-21,2-22,3-23,4-24,5-25]

[Fibrosis TGLS = 1-21,2-22,3-23,4-24,5-25]

[Hyperplasia TGLS = 1-21,2-22,3-23,4-24,5-25]

[Necrosis TGLS = 1-21,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,2-22,3-23,4-24,5-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 144	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Lung		Granuloma Infiltration Cellular Ectasia	Multiple, Mild Histiocyte, Multifocal, Mild Mild
Lymph Node Note: ECTASIA TGLs = 10-3	Mediastinal		
Mammary Gland Ovary Note: CYST TGLs = 8-7-1	Duct	Cyst Cyst	
Pituitary Gland Spleen	Pars Distalis	Hyperplasia Congestion Hematopoietic Cell Proliferation	Focal, Mild Mild Mild
Thymus Uterus Note: POLYP STROMAL TGLs = 7-7-1		Cyst Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Ovary
Skin
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Cortex

Focal Cellular Change
Cardiomyopathy
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hepatocellular Adenoma
Hyperplasia
Hyperplasia
Inflammation
Leukemia Mononuclear
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Moderate
Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Marked

Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked

Marked
Multifocal, Mild
Multifocal, Mild
Mild

[Cytomegaly TGLS = 1-21,2-22,3-23,4-24,5-25]

[Degeneration TGLS = 1-21,3-23]

[Fibrosis TGLS = 1-21,2-22,3-23,4-24,5-25]

[Necrosis TGLS = 1-21,2-22,3-23,4-24,5-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 145	TRT#: 6	SEX: Female	DAY ON TEST: 732
	DOSE: 4 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 1-21,2-22,3-23,4-24,5-25]

Mammary Gland	Duct	Cyst Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 6-26,7-27		
Note: CYST	TGLs = 7-27		
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: PIGMENT	TGLs = 8-1		
Note: ADENOMA	TGLs = 8-1		
Note: ANGIECTASIS	TGLs = 8-1		
Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
Uterus		Hemorrhage	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 146

TRT#: 6

SEX: Female

DAY ON TEST: 627

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Salivary Glands
Skin	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
		Developmental Malformation	Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cyst TGLS = 9-25]
 [Cytomegaly TGLS = 5-21,7-23]
 [Degeneration TGLS = 5-21,7-23]
 [Fibrosis TGLS = 5-21,7-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 627

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 5-21,7-23]

[Vacuolization Cytoplasmic TGLS = 5-21,7-23]

Lung Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 12-2

Lymph Node Bronchial Leukemia Mononuclear

Mandibular Leukemia Mononuclear

Mediastinal Leukemia Mononuclear

Mesenteric Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 10-5,11-27

Mammary Gland Adenoma

Duct Cyst

Note: [ADENOMA] TGLs = 2-26

Note: CYST TGLs = 1-8

Mesentery Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 11-27

Ovary Leukemia Mononuclear

Pancreas Leukemia Mononuclear

Pituitary Gland Pars Distalis Angiectasis Mild

Pars Distalis Cyst Moderate

Pars Distalis Hyperplasia Moderate

Pars Distalis Leukemia Mononuclear

Pars Distalis Pigmentation Hemosiderin, Mild

Note: [HYPERPLASIA] TGLs = 13-1

Note: CYST TGLs = 13-1

Note: LEUKEMIA MONUC TGLs = 13-1

Note: PIGMENT TGLs = 13-1

Note: ANGIECTASIS TGLs = 13-1

Note: ADENOMA TGLs = 13-1

Spleen Leukemia Mononuclear

Necrosis Focal, Marked

Note: LEUKEMIA MONUC TGLs = 4-6-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 627

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Ulcer	Marked
Thymus		Leukemia Mononuclear	
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-7+7-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Salivary Glands
Thymus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Skin
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Bronchial
Ovary
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Chronic, Moderate
Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Multifocal, Mild
Moderate

[Cytomegaly TGLS = 3-21,4-22,5-23,6-24]

[Degeneration TGLS = 3-21,5-23]

[Fibrosis TGLS = 3-21,4-22,5-23,6-24]

[Necrosis TGLS = 3-21,4-22,5-23,6-24]

[Vacuolization Cytoplasmic TGLS = 3-21,4-22,5-23,6-24]

Lung
Mammary Gland
Nose

Fat, Mediastinum
Duct

Necrosis
Cyst
Foreign Body

Multifocal, Minimal

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 147

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas
Pituitary Gland

Note: ANGIECTASIS TGLs = 2-1
Note: ADENOMA TGLs = 2-1
Note: PIGMENT TGLs = 2-1

Pars Distalis
Pars Distalis
Pars Distalis

Fungus
Inflammation
Atrophy
Adenoma
Angiectasis
Pigmentation

Moderate
Suppurative, Acute, Moderate
Focal, Mild

Moderate
Hemosiderin, Mild

Spleen

Uterus
Note: POLYP STROMAL TGLs = 1-25

Congestion
Hematopoietic Cell Proliferation
Polyp Stromal

Minimal
Mild

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Salivary Glands
Thymus

Bone
Heart
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Skin
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Clitoral Gland

Kidney
Liver

Duct

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Cyst
Hyperplasia
Nephropathy
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Focal, Mild
Chronic, Moderate
Multiple
Multiple, Marked
Mild
Multifocal, Mild
Multifocal, Marked
Multifocal, Marked
Nodular, Multifocal, Mild
Chronic, Multifocal, Marked
Marked
Multifocal, Mild
Multifocal, Mild
Marked

[Cytomegaly TGLS = 4-21,5-22,6-23,7-24,8-25]
[Degeneration TGLS = 4-21,6-23]
[Fibrosis TGLS = 4-21,5-22,6-23,7-24,8-25]
[Necrosis TGLS = 4-21,5-22,6-23,7-24,8-25]
[Vacuolization Cytoplasmic TGLS = 4-21,5-22,6-23,7-24,8-25]

Lung

Fat, Mediastinum

Necrosis

Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 148	TRT#: 6 DOSE: 4 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO:
-----------------------	----------------------------------------	-------------------------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS	TGLs = 9-26			
Lymph Node		Pancreatic	Ectasia	Moderate
Note: ECTASIA	TGLs = 3-7			
Mammary Gland		Duct	Cyst	
Note: CYST	TGLs = 1-8			
Mesentery		Fat	Necrosis	Focal, Moderate
Note: NECROSIS	TGLs = 2-26			
Pancreas			Atrophy	Multifocal, Mild
Pituitary Gland		Pars Distalis	Hyperplasia	Focal, Mild
Spleen			Congestion	Mild
			Hematopoietic Cell Proliferation	Mild
Thyroid Gland		C Cell	Adenoma	
		C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 6

DOSE: 4 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 666

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gland	Duct	Cyst	
Note: CYST	TGLs = 2-8		
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: LEUKEMIA MONUC	TGLs = 7-6+21+22+23+24+25		
	[Cytomegaly TGLS = 8-21,9-22,10-23,11-24]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 149

TRT#: 6

SEX: Female

DAY ON TEST: 666

DOSE: 4 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 8-21,9-22,10-23,11-24]

[Fibrosis TGLS = 8-21,9-22,10-23,11-24]

[Hyperplasia TGLS = 8-21,9-22,10-23,11-24]

[Necrosis TGLS = 8-21,10-23]

[Vacuolization Cytoplasmic TGLS = 12-25]

Lung		Granuloma	Multiple, Mild
Note: GRANULOMA	TGLs = 13-2		
Lymph Node	Pancreatic	Ectasia	Mild
	Pancreatic	Leukemia Mononuclear	
Note: ECTASIA	TGLs = 4-26		
Note: LEUKEMIA MONUC	TGLs = 4-26		
Mammary Gland	Duct	Cyst	
Mesentery		Mineralization	Focal, Mild
	Fat	Necrosis	Focal, Moderate
Note: MINERALIZATION	TGLs = 5-27		
Note: NECROSIS	TGLs = 5-27		
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 150

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Bone	Cranium	Hypertrophy	Focal, Mild
Note: HYPERTROPHY TGLs = 10-28			
Clitoral Gland		Carcinoma	
Note: [INFLAMMATION] TGLs = 2-8		Inflammation	Chronic, Marked
Note: CARCINOMA TGLs = 1-8			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Moderate
	Biliar Tract	Fibrosis	Multifocal, Marked
	Biliar Tract	Hyperplasia	Multifocal, Marked
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Marked
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Marked
	Hepatocyte	Necrosis	Multifocal, Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 4 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 5-21,6-22,7-23,8-24,9-25

[Cytomegaly TGLs = 5-21,6-22,7-23,8-24,9-25]

[Degeneration TGLs = 5-21,6-22,7-23,8-24,9-25]

[Fibrosis TGLs = 5-21,6-22,7-23,8-24,9-25]

[Vacuolization Cytoplasmic TGLs = 5-21,7-23]

Lymph Node Pancreatic
Pancreatic
Pancreatic

Ectasia
Hyperplasia
Inflammation

Moderate
Mild
Granulomatous, Mild

Note: HYPERPLASIA TGLs = 4-27

Note: ECTASIA TGLs = 4-27

Note: INFLAMMATION TGLs = 4-27

Mammary Gland Duct

Cyst
Fibroadenoma

Note: FIBROADENOMA TGLs = 3-26

Pituitary Gland Pars Distalis
Pars Distalis
Pars Distalis

Adenoma
Angiectasis
Pigmentation

Mild
Hemosiderin, Mild

Spleen Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Skin
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Ovary
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Bone
Kidney
Liver

Femur

Hypertrophy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Focal, Mild
Chronic, Mild

Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Moderate
Multiple, Mild
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

[Cytomegaly TGLS = 3-22,5-24,6-25]

[Degeneration TGLS = 2-21,4-23]

[Fibrosis TGLS = 2-21,4-23]

[Hyperplasia TGLS = 2-21,4-23]

[Hyperplasia TGLS = 2-21,4-23]

[Vacuolization Cytoplasmic TGLS = 2-21,4-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 151	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-26			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 152

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Clitoral Gland		Adenoma	
	Duct	Cyst	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Marked
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 1-21,3-23]
 [Degeneration TGLS = 1-21,3-23]
 [Fibrosis TGLS = 1-21,3-23]
 [Hyperplasia TGLS = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 152	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lung	Fat, Mediastinum	Necrosis	Multifocal, Mild
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 5-25		
Nose	Nasopharyn Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA	TGLs = 6-1		
Spleen		Congestion	Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Multifocal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL	TGLs = 8-6		
Brain		Glioma Malignant	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Minimal
		Hematopoietic Cell Proliferation	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Hepatocyte

Vacuolization Cytoplasmic

Mild

[Cytomegaly TGLS = 2-22,4-24,5-25]

[Degeneration TGLS = 1-21,3-23]

[Fibrosis TGLS = 1-21,3-23]

[Hyperplasia TGLS = 1-21,3-23]

[Necrosis TGLS = 1-21,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Mammary Gland

Duct

Adenocarcinoma

Cyst

Fibroadenoma

Note: FIBROADENOMA TGLs = 7-8

Note: CYST TGLs = 7-8

Note: [ADENOCARC] TGLs = 6-26,11-8-1

Mesentery

Fat

Necrosis

Focal, Moderate

Note: NECROSIS TGLs = 9-27

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Marked

Pars Distalis

Pigmentation

Hemosiderin, Minimal

Note: PIGMENT TGLs = 10-1

Note: ADENOMA TGLs = 10-1

Note: ANGIECTASIS TGLs = 10-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: CYST TGLs = 2-21,4-23,5-23
 [Cyst TGLS = 2-21,4-23,5-23]
 [Cytomegaly TGLS = 3-22,6-24]
 [Degeneration TGLS = 2-21,4-23,5-23]
 [Inflammation TGLS = 2-21,4-23,5-23]
 [Pigmentation TGLS = 2-21,4-23,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland

Duct

Cyst

Note: CYST

TGLs = 1-8

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 7-1

Pars Distalis

Angiectasis

Moderate

Note: ANGIECTASIS

TGLs = 7-1

Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 155

TRT#: 8

SEX: Female

DAY ON TEST: 575

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pancreas
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Biliar Tract
Biliar Tract

Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell

Hyperplasia
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Fibrosis
Hematopoietic Cell Proliferation
Hyperplasia
Inflammation
Metaplasia
Pigmentation

Mild
Mild
Chronic, Minimal

Multiple
Multiple, Moderate
Multifocal, Moderate
Multifocal, Mild
Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal

Note: CHOLANGIOCARC TGLs = 2-21,4-23

[Fibrosis TGLS = 2-21,4-23]

[Hyperplasia TGLS = 2-21,4-23]

[Inflammation TGLS = 2-21,4-23]

[Pigmentation TGLS = 2-21,4-23]

Lung

Granuloma
Infiltration Cellular
Pigmentation

Multiple, Mild
Histiocyte, Focal, Mild
Cholesterol, Focal, Mild

Note: GRANULOMA TGLs = 9-2

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 8

SEX: Female

DAY ON TEST: 575

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PIGMENT TGLs = 9-2

Note: INFILTRAT CELL TGLs = 9-2

Mammary Gland

Duct

Cyst

Pituitary Gland

Pars Distalis

Cyst

Spleen

Hematopoietic Cell Proliferation

Moderate

Note: HEMA CELL PROL TGLs = 7-6

Uterus

Prolapse

Note: PROLAPSE TGLs = 8-25+7

Vagina

Sarcoma

Note: [SARCOMA] TGLs = 6-25+7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 8

SEX: Female

DAY ON TEST: 639

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Skin
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Spleen
Trachea

MISSING

Thymus

OBSERVATIONS

Bone Marrow
Clitoral Gland
Kidney

Liver

Cortex

Biliar Tract
Biliar Tract
Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell

Hyperplasia
Adenoma
Fibrosis
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Fibrosis
Hyperplasia
Inflammation
Metaplasia
Pigmentation

Mild

Focal, Mild
Chronic, Mild

Multiple
Multiple, Moderate
Multifocal, Moderate
Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild

[Cyst TGLS = 3-21,5-23]
[Fibrosis TGLS = 3-21,5-23]
[Hyperplasia TGLS = 3-21,5-23]
[Inflammation TGLS = 3-21,5-23]
[Pigmentation TGLS = 3-21,5-23]

Mammary Gland
Mesentery

Duct
Fat

Cyst
Necrosis

Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 8

SEX: Female

DAY ON TEST: 639

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS TGLs = 1-26

Pancreas		Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Uterus		Sarcoma Stromal	

Note: SARC STROMAL TGLs = 2-27+7-1+7-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: LEUKEMIA MONUC TGLs = 10-6+21+22+23+24+25

Note: CHOLANGIOCARC TGLs = 5-21,7-23

[Cytomegaly TGLs = 6-22]

[Degeneration TGLs = 5-21,7-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 157

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 5-21,7-23]
 [Necrosis TGLS = 5-21,7-23]
 [Vacuolization Cytoplasmic TGLS = 5-21,7-23]

Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-2		
Lymph Node	Mandibular	Ectasia	Mild
	Mesenteric	Ectasia	Mild
	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Adenocarcinoma	
	Duct	Cyst	
Note: FIBROADENOMA	TGLs = 1-26+8	Fibroadenoma	Multiple
Note: CYST	TGLs = 2-8		
Ovary		Leukemia Mononuclear	
Pancreas		Atrophy	Multifocal, Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-1		
Note: HYPERPLASIA	TGLs = 12-1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 158

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Eye		Cataract	Mild
	Retina	Degeneration	Moderate
Note: CATARACT	TGLs = 1-44		
Note: DEGEN	TGLs = 1-44		
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
Note: HYPERPLASIA	TGLs = 7-21,9-23		
Note: BASOPH FOCUS	TGLs = 11-6+21		
	[Cyst TGLS = 7-21,9-23]		
	[Fibrosis TGLS = 7-21,9-23]		
	[Inflammation TGLS = 7-21,9-23]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 158

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLS = 7-21,9-23]

Lung	Fat, Mediastinum	Necrosis	Multifocal, Mild
Note: NECROSIS TGLs = 12-25			
Mammary Gland	Duct	Cyst Fibroadenoma	Multiple
Note: CYST TGLs = 2-8			
Note: FIBROADENOMA TGLs = 3-26,4-27			
Mesentery	Fat	Necrosis	Focal, Moderate
Note: NECROSIS TGLs = 6-29			
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Cyst	Moderate
Note: ADENOMA TGLs = 13-1			
Note: ANGIECTASIS TGLs = 13-1			
[Adenoma TGLS = 13-1]			
Skin		Fibroma	
Note: [FIBROMA] TGLs = 5-28			
Spleen		Hematopoietic Cell Proliferation	Mild
Thymus		Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 159

TRT#: 8

SEX: Female

DAY ON TEST: 697

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Nephropathy	Chronic, Mild
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Hepatocellular Adenoma	Multiple
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 3-21,5-23]
 [Degeneration TGLS = 3-21,5-23]
 [Fibrosis TGLS = 3-21,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 159

TRT#: 8

SEX: Female

DAY ON TEST: 697

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-21,5-23]

[Pigmentation TGLS = 4-22,6-24,7-25]

[Vacuolization Cytoplasmic TGLS = 3-21,5-23]

Lung	Mediastinum	Leukemia Mononuclear	
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 2-8		
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-6		
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Mild
Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 160

TRT#: 8

SEX: Female

DAY ON TEST: 541

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Bone	Cranium	Hypertrophy	Focal, Mild
	Femur	Hypertrophy	Focal, Mild
Note: HYPERTROPHY	TGLs = 8-27		
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Mild
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 4-23]
 [Degeneration TGLS = 4-23]
 [Fibrosis TGLS = 4-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 160	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 541 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-23]

[Vacuolization Cytoplasmic TGLS = 4-23]

Lung		Granuloma	Multiple, Mild
	Fat, Mediastinum	Necrosis	Multifocal, Mild
Note: GRANULOMA	TGLs = 7-4		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-26		
Spleen		Congestion	Mild
		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 161

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Clitoral Gland	Duct	Cyst	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC	TGLs = 7-5		
Note: NEPHROPATHY	TGLs = 7-5		
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 161

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 1-21,3-23]
 [Fibrosis TGLS = 1-21,3-23]
 [Hyperplasia TGLS = 2-22,4-24,5-25]
 [Necrosis TGLS = 1-21,3-23]
 [Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lung	Alveolar Epith	Hyperplasia Leukemia Mononuclear	Focal, Moderate
Lymph Node	Bronchial Mediastinal Bronchial Mediastinal	Ectasia Ectasia Leukemia Mononuclear Leukemia Mononuclear	Mild Mild
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy Leukemia Mononuclear	Multifocal, Mild
Pituitary Gland	Pars Distalis Pars Distalis	Cyst Leukemia Mononuclear Leukemia Mononuclear	
Spleen			
Note: LEUKEMIA MONUC TGLs = 6-6			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Spleen
Trachea

Bone
Heart
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Salivary Glands
Stomach - Glandular
Uterus

OBSERVATIONS

Clitoral Gland

Note: CYST TGLs = 5-8
Note: [ADENOMA] TGLs = 5-8
Kidney
Liver

Duct

Adenoma
Cyst

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Chronic, Mild

Multiple
Multiple, Moderate
Mild
Multifocal, Moderate
Multiple, Mild
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Mild

[Cytomegaly TGLS = 1-21,3-23]
[Fibrosis TGLS = 1-21,3-23]
[Hyperplasia TGLS = 1-21,3-23]
[Hyperplasia TGLS = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 162	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
-----------------------	----------------------------------------	-------------------------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Mammary Gland	Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA TGLs = 6-25			
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Moderate Hemosiderin, Minimal
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 163

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Lymph Node - Mandibular	Thymus
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OBSERVATIONS

Bone	Femur	Hypertrophy	Focal, Mild
Clitoral Gland		Adenoma	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: INFLAMMATION TGLs = 1-21,3-23
 [Cytomegaly TGLs = 2-22,4-24,6-25]
 [Fibrosis TGLs = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 163

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 1-21,3-23]

[Pigmentation TGLS = 1-21,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Mammary Gland

Duct

Cyst

Fibroadenoma

Note: FIBROADENOMA TGLs = 5-26

Nose

Foreign Body

Mild

Inflammation

Suppurative, Acute, Mild

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 8

SEX: Female

DAY ON TEST: 561

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation

Minimal
Chronic, Minimal

Multiple
Multiple, Moderate
Mild
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild

[Cytomegaly TGLS = 5-23]
[Fibrosis TGLS = 5-23]
[Hyperplasia TGLS = 5-23]
[Hyperplasia TGLS = 5-23]
[Inflammation TGLS = 5-23]

Lung

Granuloma
Necrosis

Multiple, Mild
Multifocal, Mild

Fat, Mediastinum

Note: NECROSIS TGLs = 7-27
Note: GRANULOMA TGLs = 8-2

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 164	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 561 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Pancreatic	Ectasia	Moderate
Note: HYPERPLASIA TGLs = 2-26	Pancreatic	Hyperplasia	Mild
Note: ECTASIA TGLs = 2-26			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-25			
Pancreas		Atrophy	Focal, Minimal
Spleen		Congestion	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 165

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 2-22,4-24,5-25]
 [Degeneration TGLS = 1-21,3-23]
 [Fibrosis TGLS = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 165

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-21,3-23]

[Necrosis TGLS = 1-21,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Mammary Gland

Duct

Cyst

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Moderate

Pars Distalis

Pigmentation

Hemosiderin, Mild

Note: PIGMENT TGLs = 7-1

Note: ANGIECTASIS TGLs = 7-1

Note: ADENOMA TGLs = 7-1

Thymus

Cyst

Uterus

Polyp Stromal

Note: POLYP STROMAL TGLs = 6-7+7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Ovary
Stomach - Forestomach
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Thymus
Uterus

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Myelofibrosis
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Mild
Minimal
Chronic, Mild

Multiple
Multiple, Moderate
Mild
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Mild

Note: CHOLANGIOCARC TGLs = 7-21,9-23

[Cytomegaly TGLS = 6-22+24]

[Fibrosis TGLS = 7-21,9-23]

[Hyperplasia TGLS = 7-21,9-23]

[Hyperplasia TGLS = 7-21,9-23]

[Vacuolization Cytoplasmic TGLS = 7-21,9-23]

Lung
Mammary Gland

Fat, Mediastinum
Duct

Necrosis
Cyst

Multifocal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 166

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROADENOMA	TGLs = 2-26+26-1,4-28	Fibroadenoma	Multiple
Note: CYST	TGLs = 1-8		
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 5-29		
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Skin		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 3-27		
Spleen		Congestion	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 167

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: CHOLANGIOCARC TGLs = 1-21,3-23

Note: INFLAMMATION TGLs = 1-21,3-23

[Cytomegaly TGLS = 1-21,3-23]

[Fibrosis TGLS = 1-21,3-23]

[Pigmentation TGLS = 1-21,3-23]

Mammary Gland	Duct	Cyst	
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas

Hyperplasia

Focal, Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Mild

Stomach

Forestomach

Squamous Cell Papilloma

Note: PAPILLOMA SQUA TGLs = 6-4

Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 168

TRT#: 8

SEX: Female

DAY ON TEST: 364

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Heart
Intestine Small - Duodenum
Kidney
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

MISSING

Lymph Node - Bronchial

Lymph Node - Mediastinal

OBSERVATIONS

Brain Oligodendroglioma Malignant

Note: [OLIGODENDR MAL] TGLs = 1-1

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 169

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
		Developmental Malformation	Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 2-21,4-23]
 [Degeneration TGLS = 2-21,4-23]
 [Fibrosis TGLS = 2-21,4-23]
 [Hyperplasia TGLS = 2-21,4-23]
 [Hyperplasia TGLS = 6-26]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 2-21,4-23]

Mammary Gland

Duct

Cyst

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-26

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Mild

Spleen

Hematopoietic Cell Proliferation

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 170

TRT#: 8

SEX: Female

DAY ON TEST: 667

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 8-6+21+22+23+24+25]

[Degeneration TGLS = 3-21,5-23]

[Fibrosis TGLS = 3-21,5-23]

[Hyperplasia TGLS = 3-21,5-23]

[Hyperplasia TGLS = 3-21,5-23]

[Necrosis TGLS = 3-21,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 170

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 667

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 8-6+21+22+23+24+25]

Lung			Granuloma	Multiple, Mild
Note: GRANULOMA	TGLs = 9-2			
Mammary Gland			Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-26			
Pituitary Gland		Pars Distalis	Adenoma	
		Pars Distalis	Angiectasis	Mild
		Pars Distalis	Pigmentation	Hemosiderin, Mild
Uterus			Polyp Stromal	
Note: POLYP STROMAL	TGLs = 2-27			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 171

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Bone	Cranium	Hypertrophy	Focal, Mild
	Femur	Hypertrophy	Focal, Moderate
Note: HYPERTROPHY	TGLs = 8-27		
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Note: FIBROSIS	TGLs = 1-21,3-23		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cytomegaly TGLS = 1-21,3-23]
[Degeneration TGLS = 1-21,3-23]
[Fibrosis TGLS = 2-22,4-24,5-25]
[Necrosis TGLS = 1-21,3-23]
[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lung		Granuloma Infiltration Cellular Necrosis Pigmentation	Multiple, Mild Histiocyte, Multifocal, Mild Multifocal, Mild Cholesterol, Multifocal, Mild
	Fat, Mediastinum		
Note: GRANULOMA	TGLs = 7-2		
Note: INFILTRAT CELL	TGLs = 7-2		
Note: PIGMENT	TGLs = 7-2		
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
Note: NECROSIS	TGLs = 6-26		
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Esophagus

Heart

Intestine Large - Cecum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Bronchial

Lymph Node - Mandibular

Lymph Node - Mediastinal

Lymph Node - Mesenteric

Nose

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Clitoral Gland

Adenoma

Intestine Large

Colon

Parasite Metazoan

Mild

Rectum

Parasite Metazoan

Mild

Kidney

Nephropathy

Chronic, Mild

Liver

Basophilic Focus

Cholangiocarcinoma

Multiple

Biliar Tract

Cyst

Multiple, Moderate

Cyst Multilocular

Hepatocyte

Cytomegaly

Mild

Biliar Tract

Fibrosis

Multifocal, Moderate

Biliar Tract

Granuloma

Multiple, Mild

Biliar Tract

Hyperplasia

Multifocal, Moderate

Biliar Tract

Inflammation

Chronic, Multifocal, Moderate

Kupffer Cell

Metaplasia

Moderate

Hepatocyte

Pigmentation

Multifocal, Minimal

Vacuolization Cytoplasmic

Mild

[Cytomegaly TGLS = 1-21,3-23]

[Fibrosis TGLS = 1-21,3-23]

[Hyperplasia TGLS = 1-21,3-23]

[Pigmentation TGLS = 1-21,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 172	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
-----------------------	----------------------------------------	-------------------------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
Spleen		Congestion	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 5-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 617

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Clitoral Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Minimal
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: CYST TGLs = 3-21,5-23

Note: FIBROSIS TGLs = 3-21,5-23

[Cytomegaly TGLS = 3-21,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 173

TRT#: 8

SEX: Female

DAY ON TEST: 617

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 3-21,5-23]

[Necrosis TGLS = 3-21,5-23]

Mammary Gland

Duct

Cyst

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-25

Note: CYST TGLs = 2-8+25

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Marked

Pars Distalis

Pigmentation

Hemosiderin, Mild

Note: ADENOMA TGLs = 7-1

Note: ANGIECTASIS TGLs = 7-1

Note: PIGMENT TGLs = 7-1

Stomach

Forestomach

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 8-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus
Uterus

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Minimal
Chronic, Mild

Multiple
Multiple, Moderate
Minimal
Multifocal, Mild
Multifocal, Moderate
Multiple, Mild
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Mild

Note: [HYPERPLASIA] TGLs = 2-6+25
[Cytomegaly TGLS = 5-24,6-25]
[Degeneration TGLS = 2-21,3-22,4-23]
[Fibrosis TGLS = 2-21,3-22,4-23]
[Hyperplasia TGLS = 2-21,3-22,4-23]
[Inflammation TGLS = 2-6+21,3-22,4-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 174	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
-----------------------	----------------------------------------	-------------------------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 2-21,3-22,4-23]

Mammary Gland Note: CYST TGLs = 1-8	Duct	Cyst	
Pituitary Gland Note: ANGIECTASIS TGLs = 7-1 Note: ADENOMA TGLs = 7-1	Pars Distalis Pars Distalis	Adenoma Angiectasis	Moderate
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Minimal
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Minimal
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 4-6+21,6-23,8-25]

[Degeneration TGLS = 4-6+21,6-23,8-25]

[Fibrosis TGLS = 4-6+21,6-23,8-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 175	TRT#: 8	SEX: Female	DAY ON TEST: 735
	DOSE: 2 MG/KG	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 4-6+21,6-23,8-25]

[Pigmentation TGLS = 3-6+21+22+24+25]

[Vacuolization Cytoplasmic TGLS = 4-6+21,6-23,8-25]

Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-2		
Lymph Node	Pancreatic	Ectasia	Marked
Note: ECTASIA	TGLs = 2-7-1		
Mammary Gland	Duct	Cyst	
Nose		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
Ovary		Cyst	
Note: CYST	TGLs = 1-7		
Pancreas		Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mediastinal
Pancreas
Spleen
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

MISSING

Lymph Node - Bronchial

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Cortex

Focal Cellular Change
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma

Mild
Chronic, Minimal

Biliar Tract

Cyst
Cyst Multilocular

Multiple
Multiple, Moderate

Hepatocyte

Cytomegaly
Degeneration

Minimal
Multifocal, Minimal

Hepatocyte

Fibrosis

Multifocal, Moderate

Biliar Tract

Hematopoietic Cell Proliferation

Multifocal, Minimal

Biliar Tract

Hyperplasia

Multifocal, Mild

Hepatocyte

Hyperplasia

Nodular, Multifocal, Mild

Biliar Tract

Inflammation

Chronic, Multifocal, Moderate

Biliar Tract

Metaplasia

Moderate

Kupffer Cell

Pigmentation

Multifocal, Minimal

Hepatocyte

Vacuolization Cytoplasmic

Moderate

Note: CYST TGLs = 2-21,4-23
[Cytomegaly TGLs = 6-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 176

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 2-21,4-23]
[Fibrosis TGLS = 2-21,4-23]
[Pigmentation TGLS = 2-21,4-23]
[Vacuolization Cytoplasmic TGLS = 2-21,4-23]

Lung

Abscess

Marked

Note: ABSCESS TGLs = 7-2

Mammary Gland

Duct

Cyst

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-26

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Moderate

Pars Distalis

Pigmentation

Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 659

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Skin
Thymus
Uterus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Brain
Note: COMPRESSION TGLs = 13-1

Heart
Kidney
Liver

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Compression
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Moderate
Mild
Chronic, Mild
Multiple
Multiple, Moderate
Minimal
Multifocal, Minimal
Multifocal, Moderate
Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

[Cytomegaly TGLS = 7-21,9-23]
[Degeneration TGLS = 7-21,9-23]
[Fibrosis TGLS = 7-21,9-23]
[Hyperplasia TGLS = 7-21,9-23]
[Vacuolization Cytoplasmic TGLS = 7-21,9-23]

Lung

Granuloma

Multiple, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 659

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

		Infiltration Cellular Pigmentation	Histiocyte, Focal, Mild Cholesterol, Focal, Minimal
Note: GRANULOMA TGLs = 11-2 Note: PIGMENT TGLs = 11-2 Note: INFILTRAT CELL TGLs = 11-2			
Lymph Node	Axillary Pancreatic Pancreatic	Adenocarcinoma Ectasia Hyperplasia	Metastatic (Mammary Gland) Moderate Mild
Note: HYPERPLASIA TGLs = 6-28 Note: ADENOCARC TGLs = 2-25 Note: ECTASIA TGLs = 6-28			
Mammary Gland	Duct	Adenocarcinoma Cyst	Multiple
Note: CYST TGLs = 1-8 Note: [ADENOCARC] TGLs = 3,4-26+27			
Ovary		Cyst	
Note: CYST TGLs = 5-7			
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Marked Hemosiderin, Minimal
Note: ANGIECTASIS TGLs = 12-1 Note: PIGMENT TGLs = 12-1 Note: ADENOMA TGLs = 12-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 8

SEX: Female

DAY ON TEST: 478

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Bronchial
Mammary Gland
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Nose
Pituitary Gland
Stomach - Glandular
Uterus

Bone
Heart
Intestine Small - Duodenum
Kidney
Lymph Node - Mediastinal
Ovary
Salivary Glands
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Lymph Node - Mesenteric
Pancreas
Skin
Trachea

OBSERVATIONS

Bone Marrow
Ear
Note: FIBROSARC TGLs = 1
Note: TGL 1 IS ON SLIDE V.
Liver

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell

Hyperplasia
Fibrosarcoma
Cholangiocarcinoma
Cyst
Degeneration
Fibrosis
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation

Mild
Multiple
Multiple, Mild
Multifocal, Mild
Multifocal, Moderate
Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Multifocal, Mild

Note: HYPERPLASIA TGLs = 6,8
Note: TGL 6 AND 8 ARE ON SLIDES I AND III.
[Degeneration TGLS = 6,8]
[Fibrosis TGLS = 6,8]
[Hyperplasia TGLS = 6,8]
[Necrosis TGLS = 6,8]

Skeletal Muscle Rhabdomyosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 8

SEX: Female

DAY ON TEST: 478

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: RHABDOMYOSARC TGLs = 2

Note: NEOPLASM IS ON SLIDE VI.

Spleen

Note: HEMA CELL PROL TGLs = 3-2

Thyroid Gland

C Cell

Hematopoietic Cell Proliferation

Mild

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 575

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
		Cyst Multilocular	
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: FIBROSIS TGLs = 2-26,3-23
 [Cytomegaly TGLs = 2-26,3-23]
 [Degeneration TGLs = 2-26,3-23]
 [Hyperplasia TGLs = 2-26,3-23]
 [Vacuolization Cytoplasmic TGLs = 2-26,3-23]

Lymph Node	Mediastinal	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 8

SEX: Female

DAY ON TEST: 575

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS TGLs = 1-25

Pituitary Gland

Pars Distalis

Angiectasis

Minimal

Pars Distalis

Hyperplasia

Mild

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA TGLs = 4-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Small - Duodenum
Lymph Node - Bronchial
Ovary
Skin
Thymus

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Intestine Large
Kidney
Liver

Colon

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Mild
Mild
Chronic, Mild
Multiple
Multiple, Moderate
Minimal
Multifocal, Minimal
Multifocal, Moderate
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

Note: INFLAMMATION TGLs = 1-21,3-23
[Cytomegaly TGLS = 1-21,3-23]
[Degeneration TGLS = 1-21,3-23]
[Fibrosis TGLS = 1-21,3-23]
[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lung

Granuloma

Multiple, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 180

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Uterus		Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 181

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mesenteric
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Eye		Cataract	Moderate
		Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 8-44		
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Granuloma	Multiple, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Minimal
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: HYPERPLASIA	TGLs = 1-21,3-23		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 1-21,3-23

[Cytomegaly TGLs = 2-22,4-24,5-25]

[Degeneration TGLs = 1-21,3-23]

[Fibrosis TGLs = 1-21,3-23]

[Vacuolization Cytoplasmic TGLs = 1-21,3-23]

Lymph Node	Mediastinal	Ectasia	Minimal
Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 6-8			
Nose	Nasopharyn Dct	Foreign Body	Mild
	Nasopharyn Dct	Inflammation	Subacute, Mild
Pancreas		Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: PIGMENT TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			
Note: CYST TGLs = 7-1			
Note: ANGIECTASIS TGLs = 7-1			
Spleen		Congestion	Mild
Thymus		Cyst	
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furan
 CAS Number: 110-00-9

Date Report Requested: 10/19/2014
 Time Report Requested: 02:54:06
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 182

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Heart	Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Ear	Pinna	Sarcoma	
Note: [SARCOMA] TGLs = 1-25			
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
Note: NEPHROPATHY TGLs = 4-5		Nephropathy	Chronic, Moderate
Note: LEUKEMIA MONUC TGLs = 4-5			
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Minimal
[Cyst TGLS = 5-6+21+22+23+24]			
[Cytomegaly TGLS = 6-21,8-23]			
[Fibrosis TGLS = 6-21,8-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 6-21,8-23]

[Inflammation TGLS = 6-21,8-23]

[Pigmentation TGLS = 6-21,8-23]

Lung

Granuloma
Infiltration Cellular
Leukemia Mononuclear
Pigmentation

Multiple, Mild
Histiocyte, Multifocal, Mild

Cholesterol, Focal, Minimal

Note: INFILTRAT CELL TGLs = 10-2

Note: PIGMENT TGLs = 10-2

Lymph Node

Pancreatic
Mesenteric
Duct

Ectasia
Leukemia Mononuclear
Cyst

Mild

Mammary Gland

Note: CYST TGLs = 2-8

Ovary

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis
Pars Distalis

Leukemia Mononuclear
Adenoma
Angiectasis
Leukemia Mononuclear
Pigmentation

Moderate

Note: ANGIECTASIS TGLs = 11-1

Note: ADENOMA TGLs = 11-1

Note: PIGMENT TGLs = 11-1

[Adenoma TGLS = 11-1]

Spleen

Note: LEUKEMIA MONUC TGLs = 3-6-1

Thyroid Gland

C Cell

Hyperplasia
Polyp Stromal

Focal, Mild

Uterus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 8

SEX: Female

DAY ON TEST: 602

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Bronchial	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Cortex	Thrombosis	Mild
Bone	Cranium	Hypertrophy	Focal, Mild
Note: HYPERTROPHY TGLs = 11-25			
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cyst TGLS = 10-6+21+22+23+24]

[Cytomegaly TGLS = 5-21,7-23]

[Degeneration TGLS = 5-21,7-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 183

TRT#: 8

SEX: Female

DAY ON TEST: 602

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 5-21,7-23]

[Hyperplasia TGLS = 5-21,7-23]

[Vacuolization Cytoplasmic TGLS = 5-21,7-23]

Lung

Infiltration Cellular

Histiocyte, Focal, Minimal

Leukemia Mononuclear

Note: INFILTRAT CELL TGLs = 9-2

Lymph Node

Pancreatic

Ectasia

Mild

Mammary Gland

Duct

Cyst

Note: CYST TGLs = 2-8

Pituitary Gland

Pars Distalis

Angiectasis

Minimal

Pars Distalis

Hyperplasia

Mild

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 436

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Adrenal Gland - Medulla	Lymph Node - Bronchial
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OBSERVATIONS

Brain	Compression	Mild
Note: COMPRESSION TGLs = 7-1		
Kidney	Nephropathy	Chronic, Moderate
Liver	Cholangiocarcinoma	Multiple
	Cyst	Multiple, Mild
	Cytomegaly	Mild
	Degeneration	Multifocal, Mild
	Fibrosis	Multifocal, Mild
	Granuloma	Multiple, Mild
	Hyperplasia	Multifocal, Mild
	Inflammation	Chronic, Multifocal, Mild
	Metaplasia	Moderate
	Necrosis	Multifocal, Mild
	Pigmentation	Multifocal, Mild
	Vacuolization Cytoplasmic	Mild

Note: TGL 2 AND 4 ARE ON SLIDES I AND III.

Note: CHOLANGIOCARC TGLs = 2,4

[Cytomegaly TGLS = 2,4]

[Degeneration TGLS = 2,4]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 184	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 436 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 2,4]
[Vacuolization Cytoplasmic TGLS = 2,4]

Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 1-8			
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Marked
Note: ANGIECTASIS TGLs = 6-1			
Note: ADENOMA TGLs = 6-1			

PRIMARY CAUSE OF DEATH -

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 8

SEX: Female

DAY ON TEST: 689

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mandibular
Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Minimal
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Minimal
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Minimal
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Cytomegaly TGLS = 4-21,6-23]			
[Degeneration TGLS = 4-21,6-23]			
[Fibrosis TGLS = 4-21,6-23]			
[Necrosis TGLS = 4-21,6-23]			
[Vacuolization Cytoplasmic TGLS = 4-21,6-23]			
Lung		Granuloma	Multiple, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 185	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 689 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: GRANULOMA TGLs = 9-2 Note: NECROSIS TGLs = 10-27 Mammary Gland	Fat, Mediastinum	Necrosis	Multifocal, Mild
Note: [FIBROADENOMA] TGLs = 1-25 Note: CYST TGLs = 2-8 Mesentery	Duct	Cyst Fibroadenoma	
Note: NECROSIS TGLs = 3-28 Pituitary Gland	Fat	Necrosis	Focal, Mild
Note: ANGIECTASIS TGLs = 11-1 Note: PIGMENT TGLs = 11-1 Note: ADENOMA TGLs = 11-1	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Moderate Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Skin
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mediastinal
Pancreas
Spleen
Urinary Bladder

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Uterus

MISSING

Lymph Node - Bronchial

Thymus

OBSERVATIONS

Brain
Heart
Kidney
Liver

Compression
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Marked
Minimal
Chronic, Mild
Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Marked
Multiple, Minimal
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Multifocal, Mild
Mild

[Cytomegaly TGLS = 5-25]
[Degeneration TGLS = 1-21,2-22,3-23,4-24]
[Fibrosis TGLS = 1-21,2-22,3-23,4-24]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-21,2-22,3-23,4-24]

[Pigmentation TGLS = 1-21,2-22,3-23,4-24]

[Vacuolization Cytoplasmic TGLS = 1-21,2-22,3-23,4-24]

Lung Fat, Mediastinum Necrosis Multifocal, Minimal

Mammary Gland Duct Cyst

Note: CYST TGLs = 6-8

Mesentery Fat Necrosis Focal, Mild

Note: THE FAT NECROSIS IS ON SLIDE 6.

Pituitary Gland Pars Distalis Adenoma

Pars Distalis Angiectasis Marked

Pars Distalis Pigmentation Hemosiderin, Mild

Note: PIGMENT TGLs = 7-1

Note: ADENOMA TGLs = 7-1

Note: ANGIECTASIS TGLs = 7-1

Stomach Glandular Erosion Mild

Glandular Inflammation Subacute, Moderate

Glandular Ulcer Mild

Note: INFLAMMATION TGLs = 8-4

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 187

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pancreas
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Ovary
Skin
Trachea

OBSERVATIONS

Adrenal Gland

Kidney
Liver

Medulla
Medulla
Medulla

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Cyst
Hyperplasia
Pheochromocytoma Benign
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Multifocal, Mild

Chronic, Minimal

Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Moderate
Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Mild

[Cytomegaly TGLS = 1-21,3-23]
[Degeneration TGLS = 1-21,3-23]
[Fibrosis TGLS = 1-21,3-23]
[Hyperplasia TGLS = 1-21,3-23]
[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lymph Node Mandibular

Ectasia Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 187	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Mandibular Duct	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Hyperplasia	Focal, Mild
Thyroid Gland		Hematopoietic Cell Proliferation	Mild
Uterus	C Cell	Adenoma	
		Hydrometra	Mild
		Hyperplasia	Cystic, Mild
		Polyp Stromal	

Note: HYDROMETRA TGLs = 5-7

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 188

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
Bone Marrow		Hyperplasia	Mild
Heart	Pericardium	Fibrosis	Moderate
	Pericardium	Granuloma	Marked
		Necrosis	Focal, Moderate
<p>Note: NECROSIS TGLs = 11-8-1</p> <p>Note: [GRANULOMA] TGLs = 12-8.1</p> <p>Note: FIBROSIS TGLs = 11-8-1</p> <p>Note: THE NECROSIS OF FAT? THE TERM FAT IS NOT ON TDMS.</p> <p>Note: HEART HAS A RARE TUMOR.</p>			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
		Hematopoietic Cell Proliferation	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 188 **TRT#:** 8 **SEX:** Female **DAY ON TEST:** 735
DOSE: 2 MG/KG **DISP:** Terminal Sacrifice **HISTO:**

ORGAN AND ACCOUNTABLE SITE STATUS

	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Cytomegaly TGLS = 7-21,8-22]		
	[Degeneration TGLS = 9-23]		
	[Fibrosis TGLS = 9-23]		
	[Hyperplasia TGLS = 9-23]		
	[Pigmentation TGLS = 9-23]		
	[Vacuolization Cytoplasmic TGLS = 9-23]		
Lung		Granuloma	Multiple, Minimal
	Fat, Mediastinum	Necrosis	Multifocal, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-25		
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS	TGLs = 3-26		
Ovary		Granulosa Cell Tumor Malignant	
Note: GRANLSA TM MAL	TGLs = 2-7+7-1		
Pancreas		Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus		Hydrometra	Mild
		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 4-7-1		
Note: HYDROMETRA	TGLs = 5-7+7-1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Small - Duodenum
Lymph Node - Bronchial
Ovary
Skin
Thymus
Uterus

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Mediastinal
Pancreas
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Intestine Large
Kidney
Liver

Rectum

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hematopoietic Cell Proliferation
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Minimal
Mild
Chronic, Mild
Multiple
Multiple, Moderate
Minimal
Multifocal, Mild
Multifocal, Moderate
Multifocal, Mild
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

[Cytomegaly TGLS = 2-22,4-24]
[Degeneration TGLS = 1-21,3-23]
[Fibrosis TGLS = 1-21,3-23]
[Hyperplasia TGLS = 1-21,3-23]
[Pigmentation TGLS = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 189

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lung		Granuloma Infiltration Cellular Pigmentation	Multiple, Mild Histiocyte, Multifocal, Mild Cholesterol, Multifocal, Mild
Note: PIGMENT TGLs = 8-2			
Note: INFILTRAT CELL TGLs = 8-2			
Note: GRANULOMA TGLs = 8-2			
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 5-25,6-8			
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Marked Hemosiderin, Mild
Note: ANGIECTASIS TGLs = 7-1			
Note: PIGMENT TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Skin
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Pancreas
Spleen
Thyroid Gland

OBSERVATIONS

Bone

Heart
Kidney
Liver

Cranium
Femur

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract
Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Hypertrophy
Hypertrophy
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Focal, Mild
Focal, Moderate
Minimal
Chronic, Moderate

Multiple
Multiple, Mild
Minimal
Multifocal, Mild
Multifocal, Mild
Multifocal, Mild
Chronic, Multifocal, Mild
Mild
Multifocal, Mild
Mild

[Cytomegaly TGLS = 1-21,3-23]
[Degeneration TGLS = 1-21,3-23]
[Fibrosis TGLS = 1-21,3-23]
[Hyperplasia TGLS = 1-21,3-23]
[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lung

Alveolar Epith

Hyperplasia

Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 190

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland
Pituitary Gland

Duct
Pars Distalis
Pars Distalis
Pars Distalis
Pars Distalis

Infiltration Cellular
Cyst
Adenoma
Angiectasis
Cyst
Pigmentation

Histiocyte, Focal, Mild

Moderate

Hemosiderin, Mild

Note: PIGMENT TGLs = 5-25

Note: ANGIECTASIS TGLs = 5-25

Note: ADENOMA TGLs = 5-25

Note: CYST TGLs = 5-25

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 8

SEX: Female

DAY ON TEST: 703

DOSE: 2 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mediastinal
Pancreas
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Bronchial
Nose
Salivary Glands
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Skin
Thyroid Gland

OBSERVATIONS

Bone Marrow
Clitoral Gland
Note: PAPILLOMA SQUA TGLs = 1-25
Kidney
Liver

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Hyperplasia
Squamous Cell Papilloma

Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Fibrosis
Hematopoietic Cell Proliferation
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Mild

Chronic, Minimal

Multiple
Multiple, Moderate
Mild
Multifocal, Moderate
Multifocal, Mild
Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

[Cytomegaly TGLS = 3-21,5-23]
[Fibrosis TGLS = 3-21,5-23]
[Hyperplasia TGLS = 3-21,5-23]
[Pigmentation TGLS = 3-21,5-23]
[Vacuolization Cytoplasmic TGLS = 3-21,5-23]

Mammary Gland

Duct

Cyst

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 8

SEX: Female

DAY ON TEST: 703

DOSE: 2 MG/KG

DISP: Dead

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Cyst

Pars Distalis

Pigmentation

Hemosiderin, Mild

Spleen

Hematopoietic Cell Proliferation

Marked

Note: HEMA CELL PROL TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Moribund

DAY ON TEST: 665

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Nephropathy	Chronic, Mild
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Mild
	Hepatocyte	Cytomegaly	Moderate
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Mild
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Moderate

[Cytomegaly TGLS = 9-23]

[Degeneration TGLS = 9-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 192	TRT#: 8	SEX: Female	DAY ON TEST: 665
	DOSE: 2 MG/KG	DISP: Moribund	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 9-23]
 [Hyperplasia TGLS = 6-6+21+22+23+24]
 [Necrosis TGLS = 9-23]
 [Necrosis TGLS = 6-6+21+22+23+24]
 [Vacuolization Cytoplasmic TGLS = 9-23]

Lung	Mediastinum	Leukemia Mononuclear Leukemia Mononuclear	
	Fat, Mediastinum	Necrosis	Multifocal, Mild
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-5		
Note: LEUKEMIA MONUC	TGLs = 4-26		
Mammary Gland	Duct	Cyst Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3-25		
Note: CYST	TGLs = 2-8		
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
Stomach	Forestomach	Erosion	Mild
	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Brain

Intestine Small - Duodenum

Lymph Node - Bronchial

Nose

Skin

Trachea

Adrenal Gland - Medulla

Clitoral Gland

Intestine Small - Ileum

Lymph Node - Mandibular

Ovary

Spleen

Urinary Bladder

Bone

Esophagus

Intestine Small - Jejunum

Lymph Node - Mediastinal

Parathyroid Gland

Stomach - Glandular

Uterus

Bone Marrow

Intestine Large - Cecum

Islets, Pancreatic

Lymph Node - Mesenteric

Salivary Glands

Thymus

OBSERVATIONS

Heart

Intestine Large

Kidney

Liver

Colon

Rectum

Biliar Tract

Hepatocyte

Biliar Tract

Biliar Tract

Biliar Tract

Biliar Tract

Kupffer Cell

Hepatocyte

Cardiomyopathy

Parasite Metazoan

Parasite Metazoan

Nephropathy

Basophilic Focus

Cholangiocarcinoma

Cyst

Cytomegaly

Fibrosis

Hyperplasia

Inflammation

Metaplasia

Pigmentation

Vacuolization Cytoplasmic

Mild

Mild

Mild

Chronic, Moderate

Multiple

Multiple, Moderate

Mild

Multifocal, Moderate

Multifocal, Moderate

Chronic, Multifocal, Moderate

Moderate

Multifocal, Mild

Mild

[Cytomegaly TGLS = 5-22,7-24,8-25]

[Fibrosis TGLS = 4-21,6-23]

[Hyperplasia TGLS = 4-21,6-23]

[Inflammation TGLS = 4-21,6-23]

[Pigmentation TGLS = 4-21,6-23]

[Vacuolization Cytoplasmic TGLS = 4-21,6-23]

Lung

Note: GRANULOMA TGLs = 9-2

Granuloma

Multiple, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:06
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 193	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
-----------------------	----------------------------------------	-------------------------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 2-27,3-26 Note: CYST TGLs = 1-8			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Stomach	Artery, Forestomach	Inflammation	Subacute, Mild
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:06

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 8

SEX: Female

DAY ON TEST: 642

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Bronchial	Lymph Node - Mediastinal
Mammary Gland	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-1		
Note: HEMORRHAGE	TGLs = 3-1		
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Mild
	Hepatocyte	Cytomegaly	Moderate
	Biliar Tract	Fibrosis	Multifocal, Mild
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Centrilobular	Necrosis	Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

Note: THE LESIONS WERE MASKED GROSSLY BY LEUKEMIA.
[Cytomegaly TGLs = 4-21,6-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:07
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 194

TRT#: 8

SEX: Female

DAY ON TEST: 642

DOSE: 2 MG/KG

DISP: Moribund

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4-21,6-23]

[Hyperplasia TGLS = 6-23]

[Pigmentation TGLS = 4-21,6-23]

[Vacuolization Cytoplasmic TGLS = 4-21,6-23]

Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Nose		Inflammation	Suppurative, Acute, Mild
Ovary		Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-6		
Thyroid Gland	Follicular Cel	Adenocarcinoma	
Note: [ADENOCARC]	TGLs = 2-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:07

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Salivary Glands
Thymus
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Nose
Skin
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Medulla

Biliar Tract
Hepatocyte
Biliar Tract

Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Pheochromocytoma Benign
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Fibrosis
Hepatocellular Adenoma
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Mild

Multiple
Multiple, Moderate
Mild
Multifocal, Moderate

Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

[Cytomegaly TGLS = 1-21,3-23]
[Fibrosis TGLS = 1-21,3-23]
[Hyperplasia TGLS = 1-21,3-23]
[Pigmentation TGLS = 1-21,3-23]
[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Lung
Granuloma
Infiltration Cellular

Multiple, Mild
Histiocyte, Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:07
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 195	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Multifocal, Marked
Note: NECROSIS TGLs = 5-25			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH -

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:07

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Heart
Intestine Small - Ileum
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Salivary Glands
Thymus
Uterus

Bone
Intestine Large - Colon
Islets, Pancreatic
Nose
Skin
Thyroid Gland

Esophagus
Intestine Small - Duodenum
Lymph Node - Bronchial
Ovary
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Brain
Clitoral Gland

Intestine Large
Kidney
Liver

Duct

Rectum

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Hepatocyte
Kupffer Cell
Hepatocyte

Infiltration Cellular
Hemorrhage
Adenoma
Cyst
Inflammation
Parasite Metazoan
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Hematopoietic Cell Proliferation
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Necrosis
Pigmentation
Vacuolization Cytoplasmic

Histiocyte, Marked
Focal, Mild

Suppurative, Acute, Focal, Mild
Mild
Chronic, Mild

Multiple
Multiple, Mild
Mild
Multifocal, Mild
Multifocal, Mild
Multifocal, Mild
Multifocal, Mild
Nodular, Multifocal, Mild
Chronic, Multifocal, Mild
Mild
Multifocal, Mild
Multifocal, Mild
Mild

[Cytomegaly TGLS = 3-6+21+22+24+25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:07

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 4-21,6-23]
[Fibrosis TGLS = 4-21,6-23]
[Hyperplasia TGLS = 4-21,6-23]
[Necrosis TGLS = 4-21,6-23]
[Vacuolization Cytoplasmic TGLS = 4-21,6-23]

Lung		Granuloma	Multiple, Mild
Note: GRANULOMA	TGLs = 9-2		
Lymph Node	Mandibular	Ectasia	Mild
	Pancreatic	Ectasia	Marked
Note: ECTASIA	TGLs = 2-7		
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 1-8		
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ANGIECTASIS	TGLs = 10-1		
Note: ADENOMA	TGLs = 10-1		
Note: PIGMENT	TGLs = 10-1		
Spleen		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:07

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Islets, Pancreatic
Lymph Node - Mediastinal
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lung
Lymph Node - Mesenteric
Salivary Glands
Stomach - Glandular

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Bronchial
Ovary
Skin
Thymus

OBSERVATIONS

Intestine Large
Kidney
Liver

Rectum

Biliar Tract

Hepatocyte
Biliar Tract
Biliar Tract
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Parasite Metazoan
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cyst Multilocular
Degeneration
Fibrosis
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Mild
Chronic, Moderate

Multiple
Multiple, Moderate

Multifocal, Mild
Multifocal, Moderate
Multifocal, Moderate
Chronic, Multifocal, Moderate
Moderate
Multifocal, Minimal
Mild

Note: INFLAMMATION TGLs = 1-21,3-23

Note: VACUOLIZ CYTO TGLs = 2-22,4-24

[Fibrosis TGLS = 1-21,3-23]

[Hyperplasia TGLS = 1-21,3-23]

[Pigmentation TGLS = 1-21,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Mammary Gland

Duct

Cyst

Nose

Nasolacrim Dct

Foreign Body

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:07
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 197	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Nasolacrim Dct Pars Distalis Pars Distalis Pars Distalis	Inflammation Adenoma Angiectasis Pigmentation	Subacute, Mild Marked Hemosiderin, Minimal
Note: ADENOMA TGLs = 6-1 Note: ANGIECTASIS TGLs = 6-1 Note: PIGMENT TGLs = 6-1			
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 5-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:07
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 198

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Bronchial
Lymph Node - Mandibular	Lymph Node - Mediastinal	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Islets, Pancreatic	Pancreas
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OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Metaplasia	Moderate
	Hepatocyte	Necrosis	Multifocal, Mild
	Kupffer Cell	Pigmentation	Multifocal, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Cytomegaly TGLS = 3-21,5-23]
 [Degeneration TGLS = 3-21,5-23]
 [Fibrosis TGLS = 3-21,5-23]
 [Necrosis TGLS = 3-21,5-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:07
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 198	TRT#: 8 DOSE: 2 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO:
-----------------------	----------------------------------------	-------------------------------------------------------	------------------------------------------

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 3-21,5-23]

Lung	Alveolar Epith	Hyperplasia Infiltration Cellular	Multifocal, Mild Histiocyte, Multifocal, Mild
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
Note: NECROSIS TGLs = 2-26			
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-6			
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:07

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 8

DOSE: 2 MG/KG

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Bronchial	Lymph Node - Mandibular	Lymph Node - Mediastinal
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Pheochromocytoma Benign	
Clitoral Gland	Duct	Adenoma	
Note: ADENOMA TGLs = 2-8		Cyst	
Note: CYST TGLs = 2-8			
Eye	Retina	Cataract	Marked
Note: DEGEN TGLs = 1-44		Degeneration	Marked
Note: CATARACT TGLs = 1-44			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Cholangiocarcinoma	Multiple
	Biliar Tract	Cyst	Multiple, Moderate
	Hepatocyte	Cytomegaly	Mild
	Hepatocyte	Degeneration	Multifocal, Mild
	Biliar Tract	Fibrosis	Multifocal, Moderate
	Biliar Tract	Hyperplasia	Multifocal, Moderate
	Hepatocyte	Hyperplasia	Nodular, Multifocal, Mild
	Biliar Tract	Inflammation	Chronic, Multifocal, Moderate
	Biliar Tract	Metaplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:07
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 199

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Hepatocyte	Necrosis	Multifocal, Mild
Kupffer Cell	Pigmentation	Multifocal, Mild
Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Cytomegaly TGLS = 6-22,8-24,9-26]		
[Degeneration TGLS = 7-23]		
[Fibrosis TGLS = 7-23]		
[Hyperplasia TGLS = 7-23]		
[Necrosis TGLS = 7-23]		
[Vacuolization Cytoplasmic TGLS = 7-23]		
Mammary Gland	Duct	Cyst
Note: CYST TGLs = 3-8		
Pituitary Gland	Pars Distalis	Adenoma
	Pars Distalis	Angiectasis
	Pars Distalis	Pigmentation
		Polyp Stromal
Uterus		
Note: POLYP STROMAL TGLs = 4-25		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furan

CAS Number: 110-00-9

Date Report Requested: 10/19/2014

Time Report Requested: 02:54:07

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Skin
Thymus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Stomach - Forestomach
Trachea

MISSING

Lymph Node - Bronchial

Lymph Node - Mediastinal

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Hyperplasia
Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Cyst
Cytomegaly
Degeneration
Fibrosis
Granuloma
Hyperplasia
Hyperplasia
Inflammation
Metaplasia
Pigmentation
Vacuolization Cytoplasmic

Minimal
Mild
Chronic, Mild
Multiple
Multiple, Moderate
Mild
Multifocal, Mild
Multifocal, Marked
Multiple, Mild
Multifocal, Moderate
Nodular, Multifocal, Mild
Chronic, Multifocal, Moderate
Moderate
Multifocal, Mild
Mild

Biliar Tract
Hepatocyte
Hepatocyte
Biliar Tract

Biliar Tract
Hepatocyte
Biliar Tract
Biliar Tract
Kupffer Cell
Hepatocyte

Note: CHOLANGIOCARC TGLs = 1-21,3-23
[Cytomegaly TGLs = 1-21,3-23]
[Degeneration TGLs = 1-21,3-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05004-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furan
CAS Number: 110-00-9

Date Report Requested: 10/19/2014
Time Report Requested: 02:54:07
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 200

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2 MG/KG

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 1-21,3-23]

[Vacuolization Cytoplasmic TGLS = 1-21,3-23]

Mammary Gland

Duct

Cyst

Ovary

Cyst

Granulosa Cell Tumor Malignant

Note: GRANLSA TM MAL TGLs = 5-7+7-1

Uterus

Cervix

Cyst

Hydrometra

Mild

Hyperplasia

Cystic, Mild

Polyp Stromal

Note: HYDROMETRA TGLs = 6-7

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****