

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

C Number:	C56177
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	12/08/1988

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 267

DOSE: VEHICLE CONTROL

DISP: Dosing Accident

HISTO: A83027708

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
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Liver	Centrilobular	Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Moderate
		Foreign Body	Moderate
Note: CONGESTION TGLs = 1-4			
Pancreas	Acinus	Atrophy	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A8501321

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 - Mandibular	Lymph Node - Mesenteric
Nose	Pancreas	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Eye [Degeneration TGLS = 1-13]	Retina	Degeneration	Mild
Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney	Cortex	Cyst	
Note: CYST TGLs = 4-5		Nephropathy	Chronic, Marked
Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Parathyroid Gland		Hyperplasia	Minimal
Prostate		Inflammation	Subacute, Mild
Skin		Squamous Cell Carcinoma	
Note: [SQUAM CEL CARC] TGLs = 2-14			
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 3-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A8501322

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	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Blood		Anemia	Mild
Note: ANEMIA TGLs = 1-61			
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Islets, Pancreatic		Hyperplasia	Focal, Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Multifocal, Mild
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: ANGIECTASIS TGLs = 6-2			
Lung		Granuloma	Multiple, Mild
Lymph Node	Inguinal	Ectasia	Moderate
	Inguinal	Inflammation	Suppurative, Acute, Mild
[Ectasia TGLS = 2-13]			
[Inflammation TGLS = 2-13]			

* PROTOCOL REQUIRED TISSUE

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Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A8501322

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
Preputial Gland		Carcinoma	
		Inflammation	Suppurative, Acute, Mild
Note: INFLAMMATION TGLs = 3-14 [Inflammation TGLS = 3-14+8]			
Spleen		Fibrosis	Focal, Moderate
		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 5-15			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 4-6			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 451
	DOSE: VEHICLE CONTROL	DISP: Dosing Accident	HISTO: A83028665

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 - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: [HDN] TGLs = 2			
Lung		Congestion	Mild
		Foreign Body	Minimal
Preputial Gland		Inflammation	Granulomatous, Mild
Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 583
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A83030474

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	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Focal, Minimal
Bone Marrow		Hyperplasia	Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: [HDN] TGLs = 5			
Mammary Gland	Duct	Cyst	
Preputial Gland		Inflammation	Granulomatous, Minimal
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA] TGLs = 1			
Note: TGL 1 IS ON SLIDE I.			
Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 3-2]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-7]			
Thyroid Gland	C Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
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Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
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: A8501325

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
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Skeletal Muscle		Fibrosarcoma	
[Fibrosarcoma TGLS = 3-14]			
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-13]			
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 7 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 729
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:** A8501326

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 - Mesenteric	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Nose		Fungus	Marked
		Inflammation	Suppurative, Acute, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Prostate		Inflammation	Subacute, Minimal
Testes	Interstitial Cell	Adenoma	Multiple

[Adenoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
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:** A8501327

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
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1-13]			
[Degeneration TGLS = 1-13]			
Heart		Cardiomyopathy	Minimal
Intestine Small	Jejunum	Fibrosarcoma	
[Fibrosarcoma TGLS = 5-15]			
Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 4-14]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2-7]			
Pancreas	Acinus	Adenoma	
Note: ADENOMA TGLs = 4-14			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-1			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 3-6]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Moribund	DAY ON TEST: 444 HISTO: A83028610
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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 - Mandibular	Lymph Node - Mesenteric
Pancreas	Pituitary Gland	Preputial Gland	Prostate
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Thymus			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Centrilobular	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Basal Cell Carcinoma	Metastatic (Skin)
Nose		Foreign Body	Moderate
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 1			
Note: TGL 1 IS ON SLIDE I.			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 2-7			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 448

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A83028611

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	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Testes	Trachea
Urinary Bladder			

MISSING

Seminal Vesicle

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: TGL 8 IS ON SLIDE 6B.			
Note: LEUKEMIA MONUC	TGLs = 8		
Note: LEUKEMIA MONUC	TGLs = 8		
Bone Marrow		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-5		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-4,11-4		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-2		
Mammary Gland	Duct	Cyst	
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Focal, Moderate
Note: LEUKEMIA MONUC	TGLs = 3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 10	TRT#: 1	SEX: Male	DAY ON TEST: 448
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A83028611

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 3 IS ON SLIDE I. Note: NECROSIS TGLs = 3			
Nose		Fungus Inflammation	Moderate Suppurative, Acute, Mild
Pancreas Note: LEUKEMIA MONUC TGLs = 5-5,6-5,7 Note: TGL 7 IS ON SLIDE II.		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Leukemia Mononuclear	Moderate
[Adenoma TGLS = 12-1] [Angiectasis TGLS = 12-1] [Leukemia Mononuclear TGLS = 12-1]			
Spleen Note: LEUKEMIA MONUC TGLs = 4-2		Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 11	TRT#: 1	SEX: Male	DAY ON TEST: 654
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A84031003

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	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2,3-21]			
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 1-7]			
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 4-22]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 12	TRT#: 1	SEX: Male	DAY ON TEST: 292
	DOSE: VEHICLE CONTROL	DISP: Dosing Accident	HISTO: A83027709

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
Islets, Pancreatic	Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Intestine Small - Jejunum

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	
Liver	Centrilobular	Fatty Change	Minimal
Lung		Congestion	Moderate
		Foreign Body	Moderate
[Congestion TGLS = 1-4]			
[Foreign Body TGLS = 2-4]			
Preputial Gland		Inflammation	Granulomatous, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A84031561

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 - Mandibular	Lymph Node - Mesenteric
Nose	Pancreas	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Glandular	Testes
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Blood		Anemia	Moderate
[Anemia TGLS = 1-61]			
Brain		Compression	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 4-10]		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-21,3-22+22-1]			
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]	Pars Distalis	Cyst	
[Cyst TGLS = 6-1]			
Prostate		Inflammation	Subacute, Mild
Spleen		Hematopoietic Cell Proliferation	Marked
Stomach	Forestomach	Inflammation	Subacute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 13	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A84031561

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ULCER TGLs = 8-6 [Ulcer TGLS = 8-6]	Forestomach	Ulcer	Multiple, Marked
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: CHRONIC

Test Compound: Furfural

Time Report Requested: 12:36:14

Route: GAVAGE

CAS Number: 98-01-1

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Capsule, Cortex	Accessory Adrenal Cortical Nodule	
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Mild
Lymph Node	Mandibular	Ectasia	Mild
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
[Pigmentation TGLS = 4-1]			
Prostate		Inflammation	Subacute, Mild
Skin	Sebaceous GI	Adenoma	
	Subcut Tiss	Fibroma	Multiple

Note: ADENOMA TGLs = 1-13

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501333

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [FIBROMA] TGLs = 2,3-14+15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 15	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A8501334

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 - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain		Compression	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mandibular	Ectasia	Minimal
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
	[Adenoma TGLS = 1-1]		
	[Angiectasis TGLS = 1-1]		
	[Pigmentation TGLS = 1-1]		
Prostate		Inflammation	Subacute, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501336

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
Lung	Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Epididymis		Inflammation	Subacute, Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 5-5		
Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2]			
Lymph Node	Mediastinal	Congestion	Moderate
	Mandibular	Ectasia	Mild
Note: CONGESTION	TGLs = 6-13		
Note: ECTASIA	TGLs = 1-7		
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Pancreas	Acinus	Atrophy	Multifocal, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-2]			
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501337

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 - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Pancreas	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Fibroma	
Testes		Atrophy	Moderate
Note: ATROPHY	TGLs = 2-6		
Thyroid Gland	Follicular Cel	Carcinoma	
Note: NEOPLASIA MAY BE MIXED TUMOR, UNUSUAL			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501338

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 - Mesenteric
Mesentery	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Mild
[Granuloma TGLS = 2-3]			
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA TGLs = 3-1			
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
Prostate		Inflammation	Subacute, Minimal
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501339

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 - Mandibular
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Subacute, Mild
Skin		Squamous Cell Papilloma	
		[Squamous Cell Papilloma TGLS = 1-15]	
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-14,3-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 554

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A83029846

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 - Mandibular	Lymph Node - Mesenteric	Parathyroid Gland
Preputial Gland	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Testes	Trachea	Urinary Bladder

MISSING

Salivary Glands	Thymus
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OBSERVATIONS

Adrenal Gland	Capsule, Cortex	Accessory Adrenal Cortical Nodule	Mild
Brain		Compression	Moderate
		Hydrocephalus	Mild
[Compression TGLS = 3-1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
Lymph Node	Pancreatic	Ectasia	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
Prostate		Inflammation	Subacute, Moderate
Stomach	Glandular	Erosion	Mild
Thyroid Gland		Ultimobranchial Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	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		Compression	Moderate
[Compression TGLS = 9-1]			
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 6-5]			
Liver	Centrilobular	Basophilic Focus	
	Bile Duct	Fatty Change	Mild
		Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-13]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 4-14]			
Nose		Fungus	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501341

ORGAN AND ACCOUNTABLE SITE STATUS

	Mucosa	Hyperkeratosis	Focal, Mild
	Mucosa	Hyperplasia	Focal, Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Leukemia Mononuclear	
	[Adenoma TGLS = 8-1]		
	[Angiectasis TGLS = 8-1]		
	[Leukemia Mononuclear TGLS = 8-1]		
Prostate		Inflammation	Subacute, Mild
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-2]		
Testes	Interstit Cell	Adenoma	
		Atrophy	Mild
	[Adenoma TGLS = 2-6]		
	[Atrophy TGLS = 3-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
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: A8501342

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 - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: [HDN] TGLs = 2-13			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

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: A8501343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Ear	Pinna	Schwannoma Benign	
[Schwannoma Benign TGLS = 1-13]			
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501344

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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Pituitary Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Minimal
Nose		Foreign Body	Moderate
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Pancreas	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Multifocal, Moderate
Preputial Gland		Inflammation	Subacute, Mild
Prostate		Inflammation	Subacute, Mild
Stomach	Glandular	Mineralization	Minimal
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
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: A8501345

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 - Mandibular	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 371

DOSE: VEHICLE CONTROL

DISP: Dosing Accident

HISTO: A83028068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Eye
Heart	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 - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Liver	Centrilobular	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Mild
		Foreign Body	Mild
[Foreign Body TGLS = 2-4]			
Preputial Gland		Adenoma	
	Duct	Cyst	
Note: ADENOMA TGLs = 1			
Note: TGL 1 IS ON SLIDE 7B.			
[Adenoma TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 564

DOSE: VEHICLE CONTROL

DISP: Dosing Accident

HISTO: A83030006

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	Kidney	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Moderate
Lung		Congestion	Moderate
		Foreign Body	Moderate
Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 697

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A8501348

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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Cortex	Hematopoietic Cell Proliferation	Minimal
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 4-15]			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Mild
Note: [CLEAR CL FOCUS] TGLs = 3-14			
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy	Multifocal, Minimal
Prostate		Inflammation	Subacute, Minimal
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA] TGLs = 1-13			
Spleen		Hematopoietic Cell Proliferation	Marked
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 517

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A83029446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	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
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Mild
	Medulla	Hyperplasia	Focal, Mild
Bone Marrow		Hyperplasia	Mild
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
Mesentery		Mesothelioma Malignant	
Note: TGL 2 IS ON SLIDE I AND II.			
[Mesothelioma Malignant TGLS = 2,3]			
Pancreas		Mesothelioma Malignant	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Subacute, Mild
		Mesothelioma Malignant	
Spleen		Hematopoietic Cell Proliferation	Moderate
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
		Mesothelioma Malignant	

[Adenoma TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 517

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A83029446

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 31	TRT#: 1	SEX: Male	DAY ON TEST: 340
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO: A83027884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Harderian Gland
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 - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Liver	Centrilobular	Fatty Change	Minimal
Lung		Congestion	Mild
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 32	TRT#: 1	SEX: Male	DAY ON TEST: 517
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A83029447

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 - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Intestine Small - Duodenum	Mammary Gland
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OBSERVATIONS

Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Mild
Note: GRANULOMA	TGLs = 4-4		
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Ectasia	Mild
Nose		Fungus	Marked
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple
		Mesothelioma Malignant	
[Adenoma TGLS = 1-7]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

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: A8501352

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	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Islets, Pancreatic		Hyperplasia	Focal, Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
		[Cyst TGLS = 4-13]	
		[Nephropathy TGLS = 3-5]	
Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: [HDN] TGLs = 5-15			
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy	Multifocal, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Developmental Malformation	Moderate
Note: DEVELOP MALFOR IS RETAINED TESTES.			
		[Adenoma TGLS = 2-6]	
		[Developmental Malformation TGLS = 1-6]	
Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

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: A8501352

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 7-3

Zymbal's Gland

Adenoma

Note: ADENOMA TGLs = 6-16

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 34	TRT#: 1	SEX: Male	DAY ON TEST: 398
	DOSE: VEHICLE CONTROL	DISP: Dosing Accident	HISTO: A83028293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Small - Duodenum	Lymph Node - Mandibular	Preputial Gland	Seminal Vesicle
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OBSERVATIONS

Intestine Large	Cecum	Parasite Metazoan	Mild
Liver	Centrilobular	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Marked
		Foreign Body	Minimal
[Foreign Body TGLS = 2-4,3-4]			
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hemorrhage	Moderate
[Adenoma TGLS = 6-1]			
[Hemorrhage TGLS = 6-1]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
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: A8501354

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 - Mandibular	Lymph Node - Mesenteric	Nose
Parathyroid Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Hyperplasia	Focal, Moderate
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Subacute, Mild
[Inflammation TGLS = 1-8]			
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Furfural
 CAS Number: 98-01-1

Date Report Requested: 10/22/2014
 Time Report Requested: 12:36:14
 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

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Mandibular
Parathyroid Gland	Preputial Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: [HEPATOCLR ADEN] TGLs = 5-14			
[Leukemia Mononuclear TGLS = 4-2+14+17]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
Lymph Node	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
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

Pancreas	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Prostate		Inflammation	Subacute, Minimal
Seminal Vesicle		Dilatation	Marked
	[Dilatation TGLS = 1-6]		
Spleen		Hemorrhage	Moderate
	[Hemorrhage TGLS = 3-13]		
	[Leukemia Mononuclear TGLS = 2-2+13]		
Testes	Interstit Cell	Adenoma	Multiple
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
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: A8501356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular	Lymph Node - Mesenteric	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Centrilobular	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
[Necrosis TGLS = 2-13]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas	Acinus	Atrophy	Multifocal, Minimal
	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Subacute, Mild
Prostate		Inflammation	Subacute, Minimal
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 38	TRT#: 1	SEX: Male	DAY ON TEST: 595
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO: A83030475

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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Marked
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 5-1		
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-5		
Lung		Leukemia Mononuclear	
Nose		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2-2]	
Testes	Interstitial Cell	Adenoma	Multiple
		Leukemia Mononuclear	
		[Adenoma TGLS = 1-7]	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Eye	Retina	Cataract	Marked
		Degeneration	Marked
		[Cataract TGLS = 3-13]	
		[Degeneration TGLS = 3-13]	
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Adenoma	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Hyperplasia	Focal, Mild
		Note: ADENOMA AND HYPERPLASIA APPEAR MIXED.	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 39	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A8501358

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Subacute, Minimal
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
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: A8501359

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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Focal, Moderate
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Pancreas	Acinus	Hyperplasia	Focal, Mild
Parathyroid Gland		Hyperplasia	Minimal
Preputial Gland		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma TGLS = 2-6]			
[Atrophy TGLS = 1-6]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501360

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 - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
Note: HYPERPLASIA	TGLs = 3-3		
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Adenoma	Multiple
	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Focal, Moderate
Note: ADENOMA	TGLs = 2-13		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 4-14		
Stomach	Glandular	Mineralization	Minimal
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 42	TRT#: 1	SEX: Male	DAY ON TEST: 484
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A83028918

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 Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Large - Rectum	Mammary Gland
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OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver	Centrilobular	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Zymbal's Gland		Adenoma	
Note: ADENOMA	TGLs = 1		
Note: TGL 1 IS ON SLIDE I.			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
	Cortex	Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
		Thrombosis	Marked
[Thrombosis TGLS = 2-13]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Minimal
Mammary Gland	Duct	Cyst	
Nose		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Atrophy	Multifocal, Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501363

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	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Hyperplasia	Focal, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
Nose	Bile Duct	Hyperplasia	Minimal
		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Prostate		Inflammation	Subacute, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Hyperplasia	Focal, Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Nose	Nasolacrim Dct	Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Subacute, Minimal
Pancreas	Acinus	Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Subacute, Mild
Prostate		Inflammation	Subacute, Minimal
Testes	Interstitial Cell	Adenoma	Multiple
		Atrophy	Moderate
[Adenoma TGLS = 2-6]			
[Atrophy TGLS = 1-6]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501365

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 - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Foreign Body	Mild
		Infiltration Cellular	Histiocyte, Multifocal, Mild
		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Granulomatous, Minimal
Prostate		Inflammation	Subacute, Minimal
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 603

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A83030476

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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spleen	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Note: TGL 3 IS ON SLIDE 6B. [Pheochromocytoma Benign TGLS = 3]			
Heart		Cardiomyopathy	Minimal
		Mesothelioma Malignant	Metastatic (Seminal Vesicle)
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Centrilobular	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung	Pleura	Mesothelioma Malignant	Metastatic (Seminal Vesicle)
Note: MESOTHELIOMA HAS OSSEOUS METAPLASIA. Note: MESOTHELIO MAL TGLs = 6-4,7-4 Note: MESOTHELIOMA ALSO ON SLIDE 4B.			
Seminal Vesicle		Inflammation	Suppurative, Acute, Marked
		Mesothelioma Malignant	
[Inflammation TGLS = 2-7] [Mesothelioma Malignant TGLS = 2-7]			
Stomach	Forestomach	Erosion	Mild
	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 47	TRT#: 1	SEX: Male	DAY ON TEST: 603
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A83030476

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]			
Thymus	Mediastinum	Mesothelioma Malignant	Metastatic (Seminal Vesicle)
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 470

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A83028852

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	Liver	Lung
Mammary Gland	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Lymph Node	Mesenteric	Congestion	Mild
	Mandibular	Hyperplasia	Moderate
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Foreign Body	Mild
		Inflammation	Granulomatous, Focal, Mild
Skin		Basal Cell Carcinoma	
Note: TGL 2 IS ON SLIDE 1.			
Note: [BASAL CEL CARC] TGLs = 2			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

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: A8501368

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	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Hyperplasia	Focal, Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Moderate
Note: HYPERPLASIA TGLs = 2-13			
Note: ADENOMA TGLs = 2-13			
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 4-15			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

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: A8501369

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 - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Note: [PHEOCHROM BGN] TGLs = 3-8			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
Lymph Node	Mandibular	Ectasia	Minimal
Pancreas	Acinus	Hyperplasia	Focal, Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
[Adenoma TGLS = 2-6]			
[Atrophy TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84032559

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 - Mandibular
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Preputial Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLS = 3-1]			
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-21]			
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 52 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 729
DOSE: 60 MG/KG **DISP:** Terminal Sacrifice **HISTO:** A84032560

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 - Mandibular	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Spleen

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-10]			
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-21]			
Stomach	Forestomach	Squamous Cell Papilloma	
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 52	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A84032560

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 479

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A83028851

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 - Mandibular	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Brain		Compression	Moderate
[Compression TGLS = 6-1]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Clear Cell Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	Mild
		Hyperplasia	Minimal
Note: [CLEAR CL FOCUS] TGLs = 4			
Note: TGL 3 IS ON SLIDE I. TGL 3 IS HERNIATED LIVER.			
Note: TGL 4 IS ON SLIDE II.			
Note: [HDN] TGLs = 3			
Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 1-8			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
Prostate		Inflammation	Subacute, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 54	TRT#: 3	SEX: Male	DAY ON TEST: 606
	DOSE: 60 MG/KG	DISP: Moribund	HISTO: A84030984

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 - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA] TGLs = 1-21			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84032561

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 - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Clear Cell Focus	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node	Mandibular	Ectasia	Mild
Pancreas	Acinus	Hyperplasia	Focal, Mild
Note: HYPERPLASIA IS PRESENT ON SLIDE 8.			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Note: HYPERPLASIA TGLs = 5-1			
Note: PIGMENT TGLs = 5-1			
Preputial Gland		Inflammation	Granulomatous, Mild
Prostate		Inflammation	Subacute, Minimal
Skeletal Muscle		Inflammation	Granulomatous, Multifocal, Mild
Note: INFLAMMATION TGLs = 3-21			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 55	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A84032561

ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma Atrophy	Multiple Mild
Note: ATROPHY	TGLs = 1-9		
Note: ADENOMA	TGLs = 2-9		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 481

DOSE: 60 MG/KG

DISP: Dead

HISTO: A83028916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Harderian Gland	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Medulla	Thymus
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OBSERVATIONS

Intestine Large Islets, Pancreatic Note: TGL 1 IS ON SLIDE I. Note: ADENOMA TGLs = 1	Rectum	Parasite Metazoan Adenoma	Mild
Liver	Bile Duct	Hyperplasia	Moderate
Lung		Congestion	Moderate
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84032562

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 - Mandibular	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Preputial Gland	Duct	Cyst	
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 1-9,2-9			
Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 5-3]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 58	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A84032563

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 - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
Pancreas	Duct	Ectasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
Preputial Gland		Adenoma	
[Adenoma TGLS = 1-15]			
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 2-21]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 3-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 597

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A83030464

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 - Mandibular
Lymph Node - Mesenteric	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 1-6]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Pancreatic	Ectasia	Mild
Note: TGL 2 IS ON SLIDE 6B.			
[Ectasia TGLS = 2]			
Mammary Gland	Duct	Cyst	
Mesentery		Sarcoma	
Note: [SARCOMA] TGLs = 3-21			
Nose	Nasopharyn Dct	Foreign Body	Mild
	Nasopharyn Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
Prostate		Inflammation	Subacute, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Erosion	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 287

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83027700

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	Kidney	Liver
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Lung		Congestion	Moderate
	Mediastinum	Foreign Body	Mild
		Foreign Body	Mild
[Foreign Body TGLS = 2-4]			
Mesentery	Fat	Necrosis	Focal, Moderate
Note: NECROSIS TGLs = 1			
Note: TGL 1 IS ON SLIDE I.			
Pancreas	Acinus	Atrophy	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 61	TRT#: 3	SEX: Male	DAY ON TEST: 309
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83027859

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 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	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Intestine Large - Rectum

OBSERVATIONS

Lung	Congestion	Moderate
	Foreign Body	Marked

[Foreign Body TGLS = 2-4]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84032564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4-7]			
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas	Acinus	Hyperplasia	Focal, Marked
Note: [HYPERPLASIA] TGLs = 3-22			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Subacute, Moderate
Prostate		Inflammation	Subacute, Mild
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-21			
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 62	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A84032564

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]			
Thyroid Gland	Follicle	Cyst	
	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 84

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A82025929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Salivary Glands
Stomach - Forestomach
Thyroid Gland

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Trachea

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Preputial Gland
Skin
Testes
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Prostate
Spleen
Thymus

MISSING

Parathyroid Gland

OBSERVATIONS

Lung

Congestion
Foreign Body

Marked
Mild

[Foreign Body TGLS = 1-4]

Pancreas

Acinus

Atrophy

Multifocal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 657

DOSE: 60 MG/KG

DISP: Dead

HISTO: A84030985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Large - Rectum	Intestine Small - Ileum	Lymph Node - Mesenteric
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
	Renal Tubule	Pigmentation	Hemosiderin, Multifocal, Moderate
Liver	Centrilobular	Necrosis	Moderate
Note: NECROSIS	TGLs = 9-5		
Mammary Gland	Duct	Cyst	
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL	TGLs = 2-21,5-22,8-24,6-5		
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Prostate		Inflammation	Subacute, Mild
Seminal Vesicle		Mesothelioma Malignant	
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
		Mesothelioma Malignant	
Note: ADENOMA	TGLs = 4-7		
Note: ATROPHY	TGLs = 3-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 657

DOSE: 60 MG/KG

DISP: Dead

HISTO: A84030985

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 65	TRT#: 3	SEX: Male	DAY ON TEST: 508
	DOSE: 60 MG/KG	DISP: Dead	HISTO: A83029288

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 - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea			

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Hydronephrosis	Minimal
		Nephropathy	Chronic, Mild
[Hydronephrosis TGLS = 3-6]			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Pancreas	Acinus	Hyperplasia	Focal, Mild
Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-7]			
Thyroid Gland	Follicle	Cyst	
Note: CYST TGLs = 5-3			
Urinary Bladder		Hemorrhage	Mild
Note: TGL 2 IS ON SLIDE 6B.			
[Hemorrhage TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 66	TRT#: 3	SEX: Male	DAY ON TEST: 655
	DOSE: 60 MG/KG	DISP: Moribund	HISTO: A84030986

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	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Moderate
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
[Leukemia Mononuclear TGLS = 4-6]			
[Nephropathy TGLS = 4-6]			
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: NECROSIS TGLs = 5-5			
Note: [HYPERPLASIA] TGLs = 5-5			
[Leukemia Mononuclear TGLS = 5-5]			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Nose		Fungus	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 66	TRT#: 3 DOSE: 60 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 655 HISTO: A84030986
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ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Inflammation Atrophy Leukemia Mononuclear	Suppurative, Acute, Mild Multifocal, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2-1]			
Testes	Interstit Cell	Adenoma Atrophy	Multiple Mild
[Adenoma TGLS = 2-7]			
[Atrophy TGLS = 3-7]			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 675

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84032565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Seminal Vesicle
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Preputial Gland
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Prostate
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Salivary Glands
Thymus

OBSERVATIONS

Blood Vessel
Bone
Heart
Kidney
[Nephropathy TGLS = 4-7]

Aorta

Mineralization
Fibrous Osteodystrophy
Cardiomyopathy
Nephropathy

Moderate
Moderate
Minimal
Chronic, Marked

Liver
Mammary Gland
Pancreas
Parathyroid Gland
[Hyperplasia TGLS = 6-3,7-3]

Bile Duct
Duct
Acinus
Acinus

Basophilic Focus
Hyperplasia
Cyst
Atrophy
Hyperplasia
Hyperplasia

Mild
Focal, Minimal
Focal, Mild
Moderate

Pituitary Gland
[Cyst TGLS = 8-1]
[Hyperplasia TGLS = 8-1]

Pars Distalis
Pars Distalis

Cyst
Hyperplasia

Focal, Mild

Skin
[Fibrosarcoma TGLS = 1-21]

Subcut Tiss

Fibrosarcoma

Stomach
[Mineralization TGLS = 9-6]

Glandular

Mineralization

Marked

Testes
[Interstit Cell

Interstit Cell

Adenoma
Atrophy

Multiple
Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 675

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84032565

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]

[Atrophy TGLS = 3-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 99

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A82026014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Preputial Gland
Skin
Testes
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Prostate
Spleen
Thymus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Pituitary Gland
Seminal Vesicle
Stomach - Glandular
Trachea

OBSERVATIONS

Lung

Congestion
Foreign Body

Moderate
Mild

[Congestion TGLS = 2-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84032566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular

Bone
Esophagus
Intestine Small - Duodenum
Lung
Preputial Gland
Skin
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Prostate
Spleen
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Angiectasis
Basophilic Focus
Clear Cell Focus
Degeneration
Dysplasia
Fibrosis
Hyperplasia

Minimal
Chronic, Moderate
Focal, Minimal

Cystic, Focal, Minimal
Focal, Marked
Focal, Marked
Marked

Bile Duct
Bile Duct
Bile Duct

Note: [DYSPLASIA] TGLs = 2-21
Note: [FIBROSIS] TGLs = 2-21
Note: [HYPERPLASIA] TGLs = 2-21

Lymph Node
Mammary Gland
Nose

Mandibular
Duct

Nasolacrim Dct

Ectasia
Cyst
Fungus
Inflammation
Inflammation
Adenoma
Angiectasis
Pigmentation

Minimal

Mild
Subacute, Mild
Suppurative, Acute, Mild

Mild
Hemosiderin, Mild

Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

[Adenoma TGLS = 3-1]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 69	TRT#: 3 DOSE: 60 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: A84032566
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ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 3-1]			
[Pigmentation TGLS = 3-1]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-9]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 564

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83029999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Prostate
Spleen
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Skin
Thyroid Gland

MISSING

Thymus

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Cholangiocarcinoma
Clear Cell Focus
Hyperplasia

Mild
Chronic, Moderate

Bile Duct

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

Note: HYPERPLASIA TGLs = 2,3

Note: CHOLANGIOCARC TGLs = 2,3

Lung

Congestion
Foreign Body

Mild
Mild

[Congestion TGLS = 4-4]

Pancreas
Preputial Gland
Testes

Acinus
Interstit Cell

Atrophy
Inflammation
Adenoma

Multifocal, Minimal
Subacute, Mild
Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 702

DOSE: 60 MG/KG

DISP: Dead

HISTO: A84032567

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 - Mandibular	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-10]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 6-1]			
[Angiectasis TGLS = 6-1]			
Spleen		Sarcoma	
Note: [SARCOMA] TGLs = 4-21			
Stomach	Glandular	Mineralization	Mild
[Mineralization TGLS = 8-6]			
Testes		Mineralization	Mild
[Mineralization TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84032568

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	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
Islets, Pancreatic		Carcinoma	
		Hyperplasia	Focal, Mild
Note: [CARCINOMA] TGLs = 2-21 [Hyperplasia TGLS = 2-21]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Cholangiocarcinoma	
	Biliar Tract	Cyst Multilocular	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
Note: UNUSUAL TUMOR-CHOLANGIOCARCINOMA. [Cholangiocarcinoma TGLS = 3-22]			
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Cyst	
Pancreas	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLS = 4-1+1-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 72	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A84032568

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 4-1+1-1]			
Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 604

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A83030465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: [HYPERPLASIA] TGLs = 5-2			
[Leukemia Mononuclear TGLS = 5-2]			
[Necrosis TGLS = 5-2]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-2			
Mesentery	Fat	Necrosis	Focal, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 73	TRT#: 3	SEX: Male	DAY ON TEST: 604
	DOSE: 60 MG/KG	DISP: Moribund	HISTO: A83030465

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-22]			
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Inflammation	Granulomatous, Mild
Prostate		Inflammation	Subacute, Mild
		Leukemia Mononuclear	
Seminal Vesicle		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2]			
Testes		Atrophy	Marked
[Atrophy TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

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Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 655

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84030987

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 - Mesenteric	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Mild
	Medulla	Hyperplasia	Focal, Mild
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 2-21]	
Nose		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Subacute, Moderate
		[Inflammation TGLS = 1-7-1]	
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Moderate
Testes	Interstit Cell	Adenoma	Multiple
		[Adenoma TGLS = 3-7]	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84031554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Pancreas	Acinus	Hyperplasia	Focal, Mild
Preputial Gland		Adenoma	
Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-21,2-21]		
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 4-6-1]		
Testes	Interstit Cell	Adenoma	Multiple
	[Adenoma TGLS = 3-9]		

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 708

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84032569

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
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Mild
Note: [HYPERPLASIA] TGLs = 2-5			
[Leukemia Mononuclear TGLS = 2-5]			
[Necrosis TGLS = 2-5]			
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: HYPERPLASIA TGLs = 5-1			
[Angiectasis TGLS = 5-1]			
[Hyperplasia TGLS = 5-1]			
Spleen		Leukemia Mononuclear	
		Thrombosis	Mild
[Leukemia Mononuclear TGLS = 3-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 76	TRT#: 3	SEX: Male	DAY ON TEST: 708
	DOSE: 60 MG/KG	DISP: Moribund	HISTO: A84032569

ORGAN AND ACCOUNTABLE SITE STATUS

Testes [Adenoma TGLS = 1-9]	Interstit Cell	Adenoma	Multiple
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PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 582

DOSE: 60 MG/KG

DISP: Dead

HISTO: A83030466

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 - Mandibular	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
		Chordoma	Metastatic (Uncertain Primary Site)
Kidney		Nephropathy	Chronic, Moderate
Liver		Chordoma	Metastatic (Uncertain Primary Site)
	Bile Duct	Hyperplasia	Mild
Lung		Chordoma	Metastatic (Uncertain Primary Site)
		Inflammation	Suppurative, Acute, Focal, Moderate
Note: [CHORDOMA] TGLs = 5,7-4 [Inflammation TGLS = 5-4]			
Lymph Node	Mediastinal	Congestion	Mild
	Mediastinal	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Mesentery		Sarcoma	
Note: TGL 1 IS ON SLIDE I. Note: [SARCOMA] TGLs = 1			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Subacute, Mild
Prostate		Inflammation	Subacute, Minimal
Skeletal Muscle		Chordoma	Metastatic (Uncertain Primary Site)
Note: [CHORDOMA] TGLs = 8			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 77	TRT#: 3 DOSE: 60 MG/KG	SEX: Male DISP: Dead	DAY ON TEST: 582 HISTO: A83030466
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL 8 IS ON SLIDE II.

Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
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[Adenoma TGLS = 3-7]
[Atrophy TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

Animal Note: UNUSUAL NEOPLASM: METASTATIC LIPOSARCOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 78	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A84032570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
Pancreas	Bile Duct	Hyperplasia	Mild
Preputial Gland	Acinus	Hyperplasia	Focal, Mild
		Carcinoma	
[Carcinoma TGLS = 1-21]			
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84032571

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 - Mesenteric	Nose
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
	Medulla	Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLS = 4-8]		
Heart		Cardiomyopathy	Mild
		Thrombosis	Marked
	[Thrombosis TGLS = 5-2-1]		
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
	[Angiectasis TGLS = 8-1]		
	[Hyperplasia TGLS = 8-1]		
Testes	Interstitial Cell	Adenoma	Multiple
	[Adenoma TGLS = 1-9,2-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84032572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Preputial Gland	Salivary Glands
Skin	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Intestine Small - Duodenum

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Hyperplasia	Focal, Mild
Eye		Cataract	Mild
	Retina	Degeneration	Mild
Note: CATARACT TGLs = 1-44			
Note: DEGEN TGLs = 1-44			
Heart		Cardiomyopathy	Minimal
		Congestion	Moderate
[Congestion TGLS = 10-2-1]			
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 7-7			
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 2-10			
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 6-2+21			
Pancreas	Acinus	Hyperplasia	Focal, Moderate
Parathyroid Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 80	TRT#: 3 DOSE: 60 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: A84032572
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ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
[Angiectasis TGLS = 12-1]			
[Hyperplasia TGLS = 12-1]			
Prostate		Inflammation	Subacute, Moderate
Seminal Vesicle		Dilatation	Mild
Note: DILATATION	TGLs = 4-9		
Spleen		Fibrosis	Focal, Moderate
Note: FIBROSIS	TGLs = 5-2		
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
	Forestomach	Ulcer	Moderate
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 3-9		
Thyroid Gland	C Cell	Adenoma	
Note: ADENOMA	TGLs = 9-3		

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 708

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84032573

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	Islets, Pancreatic	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hemorrhage	Focal, Mild
Bone Marrow		Hyperplasia	Mild
Ear	Pinna	Schwannoma Benign	
	[Schwannoma Benign TGLS = 1-21]		
Epididymis		Mesothelioma Malignant	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Mild
Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
Lymph Node	Mediastinal	Congestion	Mild
	Mediastinal	Ectasia	Mild
	Mediastinal	Pigmentation	Hemosiderin, Mild
	[Congestion TGLS = 7-2]		
	[Ectasia TGLS = 7-2]		
	[Pigmentation TGLS = 7-2]		
Mesentery		Mesothelioma Malignant	
	Fat	Necrosis	Focal, Marked
	[Mesothelioma Malignant TGLS = 5-22]		
	[Necrosis TGLS = 6-23]		
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 81	TRT#: 3 DOSE: 60 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 708 HISTO: A84032573
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
		Mesothelioma Malignant	

[Adenoma TGLS = 3-9]
[Atrophy TGLS = 4-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 82	TRT#: 3	SEX: Male	DAY ON TEST: 371
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83028067

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
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Liver	Congestion	Mild
	Fatty Change	Diffuse, Mild
Lung	Congestion	Mild
	Foreign Body	Moderate
[Foreign Body TGLS = 1-4]		
Preputial Gland	Inflammation	Subacute, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 83	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A85-1402

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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Heart		Cardiomyopathy	Minimal
		Thrombosis	Moderate
[Thrombosis TGLS = 3-2]			
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Moderate
Note: HYPERPLASIA TGLs = 2-13			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:14

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Heart	Lung	Nose
Parathyroid Gland	Prostate	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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
Pancreas	Preputial Gland	Salivary Glands	Thymus
Urinary Bladder			

OBSERVATIONS

Kidney		Nephropathy	Chronic, Marked
Liver	Bile Duct	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
[Pigmentation TGLS = 3-1]			
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-14]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:14
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 85 TRT#: 3 SEX: Male DAY ON TEST: 730
DOSE: 60 MG/KG DISP: Terminal Sacrifice HISTO: A8501404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Lung	Parathyroid Gland	Pituitary Gland
Prostate	Seminal Vesicle	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Intestine Large - Rectum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Preputial Gland	Salivary Glands	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Nose	Nasolacrim Dct	Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Subacute, Minimal
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Minimal
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 676

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A8501405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Dysplasia	Focal, Marked
	Bile Duct	Fibrosis	Focal, Marked
	Bile Duct	Hyperplasia	Mild
	Bile Duct	Hyperplasia	Focal, Marked
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: FIBROSIS	TGLs = 6-14		
Note: [DYSPLASIA]	TGLs = 6-14		
Note: HYPERPLASIA	TGLs = 6-14		
Note: [HYPERPLASIA]	TGLs = 5-2		
	[Leukemia Mononuclear TGLS = 5-2]		
	[Necrosis TGLS = 5-2]		
Lung		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 86	TRT#: 3 DOSE: 60 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 676 HISTO: A8501405
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ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Inguinal Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-15			
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy Leukemia Mononuclear	Multifocal, Minimal
[Leukemia Mononuclear TGLS = 2-13]			
Pituitary Gland	Pars Distalis Pars Distalis	Hyperplasia Leukemia Mononuclear Leukemia Mononuclear	Focal, Minimal
Spleen			
[Leukemia Mononuclear TGLS = 3-2]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 87	TRT#: 3	SEX: Male	DAY ON TEST: 599
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83030467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Centrilobular	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Mild
		Foreign Body	Minimal
Nose		Foreign Body	Mild
		Fungus	Marked
	Nasolacrim Dct	Inflammation	Subacute, Mild
		Inflammation	Suppurative, Acute, Moderate
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric	Nose	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Mild
Bone		Fibrous Osteodystrophy	Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3-5]			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy	Multifocal, Minimal
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
Prostate		Inflammation	Subacute, Mild
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 88	TRT#: 3 DOSE: 60 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: A8501407
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ORGAN AND ACCOUNTABLE SITE STATUS

Testes	Interstit Cell	Adenoma Atrophy	Multiple Mild
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Note: ATROPHY TGLs = 1-6
[Adenoma TGLS = 2-6]

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 568

DOSE: 60 MG/KG

DISP: Dead

HISTO: A83030468

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 - Mesenteric	Pancreas	Parathyroid Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Brain		Fungus	Mild
		Hemorrhage	Multifocal, Moderate
		Inflammation	Suppurative, Acute, Mild
		Necrosis	Moderate
		Thrombosis	Multiple, Mild
[Fungus TGLS = 7-1]			
[Hemorrhage TGLS = 7-1]			
[Inflammation TGLS = 7-1]			
[Necrosis TGLS = 7-1]			
[Thrombosis TGLS = 7-1]			
Heart		Cardiomyopathy	Minimal
		Inflammation	Chronic, Focal, Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Centrilobular	Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: [HYPERPLASIA] TGLs = 5-5			
[Leukemia Mononuclear TGLS = 5-5]			
[Necrosis TGLS = 5-5]			
Lung		Fungus	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 568

DOSE: 60 MG/KG

DISP: Dead

HISTO: A83030468

ORGAN AND ACCOUNTABLE SITE STATUS

		Infiltration Cellular Inflammation Necrosis Thrombosis	Histiocyte, Multifocal, Moderate Suppurative, Acute, Focal, Moderate Multifocal, Moderate Multiple, Moderate
[Fungus TGLS = 6-4] [Infiltration Cellular TGLS = 6-4] [Inflammation TGLS = 6-4] [Necrosis TGLS = 6-4] [Thrombosis TGLS = 6-4]			
Lymph Node Mammary Gland Nose	Mandibular Duct	Ectasia Cyst Fungus Inflammation	Mild Marked Suppurative, Acute, Mild
Pituitary Gland Spleen	Pars Distalis	Hyperplasia Leukemia Mononuclear Necrosis	Focal, Minimal Multifocal, Mild
[Leukemia Mononuclear TGLS = 3-2]			
Testes	Interstit Cell	Adenoma Atrophy	Moderate
Note: ADENOMA TGLs = 2-7 Note: ATROPHY TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 547

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83029778

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	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Fatty Change	Diffuse, Mild
	Bile Duct	Hyperplasia	Mild
Lung		Congestion	Mild
		Foreign Body	Mild
[Congestion TGLS = 2-4]			
[Foreign Body TGLS = 3-4]			
Mesentery	Fat	Necrosis	Focal, Moderate
Note: TGL 1 IS ON SLIDE I.			
[Necrosis TGLS = 1]			
Pancreas	Acinus	Atrophy	Multifocal, Mild
Prostate		Inflammation	Subacute, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 91	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501410

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 - Mandibular	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	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, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Hyperplasia	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 589

DOSE: 60 MG/KG

DISP: Dead

HISTO: A83030469

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	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

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	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: [HYPERPLASIA] TGLs = 4-5 [Leukemia Mononuclear TGLS = 4-5] [Necrosis TGLS = 4-5]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Fungus	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 92	TRT#: 3 DOSE: 60 MG/KG	SEX: Male DISP: Dead	DAY ON TEST: 589 HISTO: A83030469
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ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Acinus	Inflammation Atrophy Leukemia Mononuclear	Suppurative, Acute, Mild Multifocal, Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: TGL 2 IS ON SLIDE 2B. [Leukemia Mononuclear TGLS = 2]			
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501412

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	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Stomach - Forestomach	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Compression	Mild
[Compression TGLS = 11-1]			
Eye		Cataract	Mild
	Retina	Degeneration	Mild
[Cataract TGLS = 1-13]			
[Degeneration TGLS = 1-13]			
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 8-17]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: [HYPERPLASIA] TGLs = 9-2			
[Leukemia Mononuclear TGLS = 9-2]			
[Necrosis TGLS = 9-2]			
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 93 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 730
DOSE: 60 MG/KG **DISP:** Terminal Sacrifice **HISTO:** A8501412

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 2-7]			
Mesentery	Fat	Necrosis	Focal, Marked
Note: NECROSIS TGLs = 3-14			
Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Focal, Moderate
Note: ADENOMA IS ON SLIDE 4.			
Note: HYPERPLASIA TGLs = 8-17			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 10-1]			
[Angiectasis TGLS = 10-1]			
[Pigmentation TGLS = 10-1]			
Prostate		Inflammation	Subacute, Marked
[Inflammation TGLS = 6-15]			
Seminal Vesicle		Inflammation	Subacute, Moderate
[Inflammation TGLS = 7-16]			
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Minimal
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
[Adenoma TGLS = 4-6+6-1]			
[Atrophy TGLS = 5-6-1]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 438

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A83028607

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	Kidney	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Brain		Compression	
[Compression TGLS = 3-1]			
Liver	Centrilobular	Fatty Change	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
Prostate		Inflammation	Subacute, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Lymph Node - Mandibular	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Eye	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	Skin	Thymus	

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Mild
Note: LEUKEMIA MONUC TGLs = 4-2			
Note: [HYPERPLASIA] TGLs = 4-2			
[Leukemia Mononuclear TGLS = 4-2]			
Lung		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
[Adenoma TGLS = 3-6]			
[Atrophy TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501415

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	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Eye	Retina	Cataract	Marked
		Degeneration	Marked
[Cataract TGLS = 1-13]			
[Degeneration TGLS = 1-13]			
Heart		Cardiomyopathy	Minimal
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: [HYPERPLASIA] TGLs = 5-2			
[Degeneration TGLS = 6-14]			
[Leukemia Mononuclear TGLS = 5-2]			
[Necrosis TGLS = 5-2]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]			
Lymph Node	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 96	TRT#: 3 DOSE: 60 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: A8501415
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ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas	Mediastinal Mesenteric Acinus Acinus	Leukemia Mononuclear Leukemia Mononuclear Atrophy Hyperplasia	Multifocal, Mild Focal, Moderate
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-2]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Lung
Salivary Glands
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Small - Duodenum
Lymph Node - Mandibular
Seminal Vesicle
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Mesenteric
Skin
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Preputial Gland
Spleen
Thyroid Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Heart
Intestine Large
Islets, Pancreatic
Kidney
Liver
Mammary Gland
Nose
Pancreas
Pituitary Gland

[Adenoma TGLS = 2-1]
[Angiectasis TGLS = 2-1]
Prostate
Testes

[Adenoma TGLS = 1-6]

Rectum

Bile Duct
Duct
Nasolacrim Dct
Acinus
Pars Distalis
Pars Distalis

Cardiomyopathy
Parasite Metazoan
Carcinoma
Nephropathy
Hyperplasia
Cyst
Inflammation
Atrophy
Adenoma
Angiectasis

Mild
Mild

Chronic, Moderate
Mild

Subacute, Mild
Multifocal, Minimal

Marked

Subacute, Moderate
Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 98	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A85-1417

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
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mandibular	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-7]			
Pancreas	Acinus	Adenoma	
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 99	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A85-1418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Focal, Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Clear Cell Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Mild
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Pancreas	Acinus	Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
Preputial Gland		Inflammation	Granulomatous, Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1419

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
Mammary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mandibular	Ectasia	Mild
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-6,2-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1420

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	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder

MISSING

Lymph Node - Mesenteric	Thymus
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OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Congestion	Mild
Note: CONGESTION TGLs = 4-3			
Pancreas	Acinus	Hyperplasia	Focal, Marked
[Hyperplasia TGLS = 3-13]			
Pituitary Gland	Pars Distalis	Cyst	
Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma TGLS = 2-6]			
[Atrophy TGLS = 1-6]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 561

DOSE: 30 MG/KG

DISP: Dosing Accident

HISTO: A83030004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Islets, Pancreatic
Liver	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

AUTO PRECLUDES DIAG.

Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Lung		Congestion	Mild
		Foreign Body	Mild
[Congestion TGLS = 3-4]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1422

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 - Mandibular	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Mild
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Multifocal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
	[Adenoma TGLS = 2-1]		
	[Angiectasis TGLS = 2-1]		
	[Pigmentation TGLS = 2-1]		
Prostate		Inflammation	Subacute, Minimal
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple
	[Adenoma TGLS = 1-6]		
Thyroid Gland	Follicle	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1422

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 676

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A85-1423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Glandular
Testes	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Brain		Compression	
[Compression TGLS = 4-1]			
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 2-5+5-1]			
Liver	Bile Duct	Degeneration	Cystic, Minimal
		Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
[Pigmentation TGLS = 3-1]			
Preputial Gland	Duct	Cyst	
Prostate		Inflammation	Subacute, Minimal
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Erosion	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 104

TRT#: 5
DOSE: 30 MG/KG

SEX: Male
DISP: Moribund

DAY ON TEST: 676
HISTO: A85-1423

ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
Thyroid Gland	Follicle	Cyst	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 676

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A85-1424

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	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Coagulating Gland		Inflammation	Subacute, Mild
Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1-15]			
[Degeneration TGLS = 1-15]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
[Leukemia Mononuclear TGLS = 5-2]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-14]			
Mammary Gland	Duct	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 676

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A85-1424

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	
	Pars Distalis	Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
	[Adenoma TGLS = 6-1]		
	[Cyst TGLS = 6-1]		
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Fibroma	
	Note: [FIBROMA] TGLs = 2-13		
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-2]		
Testes	Interstit Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501425

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 - Mandibular	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
Note: ANGIECTASIS	TGLs = 2-1		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501426

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	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pigmentation	Hemosiderin, Mild
Epididymis		Mesothelioma Malignant	
Kidney	Cortex	Cyst	Marked
	Renal Tubule	Nephropathy	Chronic, Moderate
		Pigmentation	Hemosiderin, Multifocal, Moderate
Note: PIGMENT TGLs = 2-5 [Cyst TGLS = 6-5]			
Liver	Centrilobular	Basophilic Focus	
	Bile Duct	Fatty Change	Moderate
	Centrilobular	Hyperplasia	Minimal
		Necrosis	Focal, Mild
Note: [FATTY CHANGE] TGLs = 5-2			
Mammary Gland	Duct	Cyst	
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-13]			
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Hyperplasia	Focal, Mild
		Mesothelioma Malignant	
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 107	TRT#: 5 DOSE: 30 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: A8501426
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen	Pars Distalis	Cyst	
Stomach	Forestomach	Hematopoietic Cell Proliferation	Mild
	Glandular	Mesothelioma Malignant	
Testes	Interstit Cell	Mineralization	Minimal
		Adenoma	Multiple
		Mesothelioma Malignant	
Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 514

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83029362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain		Astrocytoma Malignant	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver	Centrilobular	Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Mild
		Infiltration Cellular	Histiocyte, Multifocal, Mild
[Congestion TGLS = 4-4]			
[Infiltration Cellular TGLS = 5-4]			
Skin	Subcut Tiss	Fibroma	
Note: TGL 1 IS ON SLIDE I.			
[Fibroma TGLS = 1]			
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 3			
Note: TGL 3 IS ON SLIDE 5B.			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1428

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 - Mesenteric	Mammary Gland	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Mild
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Minimal
Pancreas	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Multifocal, Marked
	[Hyperplasia TGLS = 3-14]		
Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-13]		
Testes	Interstit Cell	Adenoma	Multiple
	[Adenoma TGLS = 2-6]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 110 TRT#: 5 SEX: Male DAY ON TEST: 731
DOSE: 30 MG/KG DISP: Terminal Sacrifice HISTO: A85-1429

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 - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Nervosa	Cyst	
Preputial Gland		Carcinoma	
		Inflammation	Subacute, Moderate
		[Carcinoma TGLS = 1-13]	
		[Inflammation TGLS = 1-13]	
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		[Adenoma TGLS = 2-6]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 113

DOSE: 30 MG/KG

DISP: Dosing Accident

HISTO: A82026209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Seminal Vesicle
Stomach - Glandular
Trachea

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Testes
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Nose
Preputial Gland
Spleen
Thymus

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Thyroid Gland

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Kidney
Lung

Note: CONGESTION TGLs = 2-4
Prostate

Cortex

Cyst
Congestion
Foreign Body

Inflammation

Moderate
Moderate

Subacute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501431

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
Lymph Node - Mesenteric	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
Heart		Cardiomyopathy	Moderate
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
Lung	Alveolar Epith	Hyperplasia	Multifocal, Moderate
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Multifocal, Moderate
Note: [ADENOMA] TGLs = 1-13			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501432

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	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Note: ADENOMA	TGLs = 2-14		
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hematoidin, Minimal
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA	TGLs = 3-1		
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
[Pigmentation TGLS = 3-1]			
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA]	TGLs = 1-13		
Spleen		Hematopoietic Cell Proliferation	Minimal
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501432

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 702

DOSE: 30 MG/KG

DISP: Dead

HISTO: A85-1433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Ileum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	Multiple
Bone Marrow		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Small	Duodenum	Intussusception	Mild
	Jejunum	Polyp Adenomatous	
Note: INTUSSUSCEPTN TGLs = 6-15 Note: POLYP ADENOMAT TGLs = 7-16 Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Centrilobular	Fatty Change	Mild
		Hematopoietic Cell Proliferation	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: [HDN] TGLs = 5-14			
Lung		Foreign Body	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 114	TRT#: 5	SEX: Male	DAY ON TEST: 702
	DOSE: 30 MG/KG	DISP: Dead	HISTO: A85-1433

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Necrosis	Multifocal, Mild
Mesentery	Fat	Cyst	
Note: NECROSIS TGLs = 8-17		Necrosis	Focal, Moderate
Pancreas	Acinus	Atrophy	Multifocal, Mild
		Inflammation	Subacute, Multifocal, Moderate
		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 3-4 [Inflammation TGLS = 3-4]			
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	
Stomach	Forestomach	Inflammation	Subacute, Mild
	Glandular	Inflammation	Subacute, Mild
	Forestomach	Ulcer	Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1434

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 - Mandibular	Lymph Node - Mesenteric	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Capsule, Cortex	Accessory Adrenal Cortical Nodule	Mild
Brain		Granular Cell Tumor Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
[Hepatodiaphragmatic Nodule TGLS = 3-13]			
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Pancreas	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland	Duct	Cyst	
		Inflammation	Subacute, Mild
[Cyst TGLS = 1-8]			
[Inflammation TGLS = 1-8]			
Prostate		Inflammation	Subacute, Minimal
Testes	Interstit Cell	Adenoma	Multiple
		Mineralization	Minimal
[Adenoma TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1434

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 674

DOSE: 30 MG/KG

DISP: Dead

HISTO: A8501435

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	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Eye	Retina	Cataract	Mild
Note: CATARACT	TGLs = 9-15	Degeneration	Marked
Note: DEGEN	TGLs = 9-15		
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 11-16	Adenoma	
Kidney		Leukemia Mononuclear	
[Nephropathy TGLS = 4-5]		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
	Centrilobular	Leukemia Mononuclear	
Lung		Necrosis	Minimal
Note: LEUKEMIA MONUC	TGLs = 8-3	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Focal, Mild
	Artery	Hypertrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 116	TRT#: 5 DOSE: 30 MG/KG	SEX: Male DISP: Dead	DAY ON TEST: 674 HISTO: A8501435
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERTROPHY TGLs = 6-13	Artery	Mineralization	Mild
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	Subacute, Mild
Preputial Gland		Inflammation	
Spleen		Leukemia Mononuclear Necrosis	
[Leukemia Mononuclear TGLS = 2-2]			
[Necrosis TGLS = 3-2]			
Stomach	Forestomach	Leiomyosarcoma	
Note: LEIOMYOSAR TGLs = 7-14			
Testes	Interstit Cell	Adenoma Leukemia Mononuclear	Multiple
[Adenoma TGLS = 1-6]			
Thymus		Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 709

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A85-1436

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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung	Pleura	Fibrosis	Focal, Minimal
Nose	Nasolacrim Dct	Foreign Body	Mild
Pancreas	Acinus	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Multifocal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Seminal Vesicle		Inflammation	Chronic, Minimal
Skin	Subcut Tiss	Fibrosarcoma	
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 536

DOSE: 30 MG/KG

DISP: Dosing Accident

HISTO: A83029636

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 - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Intest Large			
Note: TGL 6&9 ON SLIDE II			
Kidney		Nephropathy	Chronic, Minimal
Liver	Centrilobular	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Mild
		Foreign Body	Mild
[Foreign Body TGLS = 3-5]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Prostate		Inflammation	Subacute, Minimal
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1438

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 - Mesenteric	Parathyroid Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
Nose		Foreign Body	Mild
		Fungus	Moderate
	Nasolacrim Dct	Inflammation	Subacute, Mild
		Inflammation	Suppurative, Acute, Moderate
Pancreas	Acinus	Hyperplasia	Focal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Prostate		Inflammation	Subacute, Mild
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1438

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 276

DOSE: 30 MG/KG

DISP: Dosing Accident

HISTO: A83027707

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	Kidney	Liver
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Nose	Pituitary Gland
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OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Lung		Congestion	Moderate
	Mediastinum	Foreign Body	Moderate
		Foreign Body	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Capsule, Cortex Medulla	Accessory Adrenal Cortical Nodule Hyperplasia	Mild Focal, Mild
Heart		Cardiomyopathy Thrombosis	Moderate Moderate
[Thrombosis TGLS = 3-13]			
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Lymph Node	Mandibular	Ectasia	Mild
Preputial Gland		Inflammation	Subacute, Mild
Prostate		Inflammation	Subacute, Minimal
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 668

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A84030993

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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Hyperplasia	Mild
		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 3-7]		
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 4-21,5-22]		
Pancreas		Mesothelioma Malignant	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Seminal Vesicle		Mesothelioma Malignant	
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-2]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 122	TRT#: 5	SEX: Male	DAY ON TEST: 668
	DOSE: 30 MG/KG	DISP: Moribund	HISTO: A84030993

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Mesothelioma Malignant	
Testes	Interstit Cell	Adenoma	Multiple
		Mesothelioma Malignant	
[Adenoma TGLS = 2-7]			
Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Capsule, Cortex Medulla	Accessory Adrenal Cortical Nodule Hyperplasia	Mild Focal, Minimal
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Lymph Node	Mandibular	Ectasia	Moderate
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Preputial Gland		Adenoma	
		Inflammation	Subacute, Minimal
Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 124	TRT#: 5	SEX: Male	DAY ON TEST: 329
	DOSE: 30 MG/KG	DISP: Dosing Accident	HISTO: A83027862

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	Kidney	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Thymus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Liver	Centrilobular	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Mild
		Foreign Body	Moderate

[Foreign Body TGLS = 1-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mandibular	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Moderate
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
[Hepatodiaphragmatic Nodule TGLS = 4-13]			
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Preputial Gland		Adenoma	
[Adenoma TGLS = 1-8]			
Prostate		Inflammation	Subacute, Minimal
Stomach	Glandular	Mineralization	Minimal
Testes	Interstit Cell	Adenoma	Multiple

Note: ADENOMA TGLs = 2-6,3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1445

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 - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-13]			
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Pancreas	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland	Duct	Cyst	
		Inflammation	Subacute, Mild
Stomach	Glandular	Mineralization	Minimal
Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma TGLS = 2-6]			
[Atrophy TGLS = 1-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 666

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A84030994

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	Seminal Vesicle
Stomach - Forestomach	Stomach - Glandular	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	
[Leukemia Mononuclear TGLS = 6-6]			
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
[Leukemia Mononuclear TGLS = 8-5]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-4]			
Lymph Node	Bronchial	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-23]			
[Leukemia Mononuclear TGLS = 11-2]			
[Leukemia Mononuclear TGLS = 9-6-1]			
Mammary Gland	Duct	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 127	TRT#: 5 DOSE: 30 MG/KG	SEX: Male DISP: Moribund	DAY ON TEST: 666 HISTO: A84030994
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Leukemia Mononuclear	
Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-21]		
Spleen		Leukemia Mononuclear	
		Necrosis	Multifocal, Mild
	[Leukemia Mononuclear TGLS = 4-2-1]		
	[Necrosis TGLS = 5-23]		
Testes	Interstit Cell	Adenoma	Multiple
	[Adenoma TGLS = 2-7]		
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1447

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	Lymph Node - Mandibular	Lymph Node - Mesenteric
Parathyroid Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Moderate
		Inflammation	Chronic, Focal, Mild
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3-5 [Nephropathy TGLs = 4-5]			
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2			
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Moderate
Pancreas	Acinus	Hyperplasia	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 128

TRT#: 5
DOSE: 30 MG/KG

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: A85-1447

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 6-1	Pars Distalis	Pigmentation	Hemosiderin, Mild
Prostate		Inflammation	Subacute, Mild
Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Mineralization	Minimal
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A84031558

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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
Lung		Granuloma	Multiple, Mild
Mesentery		Mesothelioma Malignant	Multiple
Note: [MESOTHELIO MAL] TGLs = 2-21,3-22			
Note: OTHER SMALL LESIONS OBSERVED WITH OTHER ABDOMINAL VISCERA.			
Nose		Foreign Body	Mild
		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
		Papilloma	
Pancreas	Acinus	Atrophy	Multifocal, Mild
Prostate		Inflammation	Subacute, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
	Capsule	Mesothelioma Malignant	
Stomach	Forestomach	Mesothelioma Malignant	
	Glandular	Mesothelioma Malignant	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-9+23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A84031558

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 708

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A8501449

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 - Mandibular	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	Multiple
[Pheochromocytoma Malignant TGLS = 3-8.1]			
Bone Marrow		Hyperplasia	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Marked
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Deep Cervical	Ectasia	Moderate
	Deep Cervical	Hyperplasia	Moderate
[Ectasia TGLS = 1-13]			
[Hyperplasia TGLS = 1-13]			
Mammary Gland	Duct	Cyst	
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Preputial Gland		Adenoma	
Prostate		Inflammation	Subacute, Minimal
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Nose	Parathyroid Gland
Pituitary Gland	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hyperplasia	Mild
Heart		Cardiomyopathy	Moderate
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Adenocarcinoma	
	Duct	Cyst	
[Adenocarcinoma TGLS = 1-13]			
Pancreas	Acinus	Atrophy	Focal, Minimal
	Acinus	Hyperplasia	Focal, Minimal
Preputial Gland		Adenoma	
Prostate		Inflammation	Subacute, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2			
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 131	TRT#: 5	SEX: Male	DAY ON TEST: 732
	DOSE: 30 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501450

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-6]		Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 484

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83028917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Large - Rectum
Lung
Nose
Seminal Vesicle
Thymus

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mandibular
Pituitary Gland
Skin
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Prostate
Spleen
Urinary Bladder

Epididymis
Intestine Large - Colon
Islets, Pancreatic
Mammary Gland
Salivary Glands
Stomach - Glandular

MISSING

Intestine Small - Duodenum

OBSERVATIONS

Adrenal Gland

Medulla
Medulla
Medulla

Hemorrhage
Pheochromocytoma Benign
Pigmentation
Fibrous Osteodystrophy
Developmental Malformation
Fibrosis
Nephropathy

Moderate
Hemosiderin, Mild
Moderate
Focal, Moderate
Chronic, Marked

Note: FIBROSIS TGLs = 6-6

Note: DEVELOP MALFOR PROBABLY CAUSED BY ADHESION

[Developmental Malformation TGLS = 8-6]

[Fibrosis TGLS = 7-6]

Liver

Bile Duct

Hepatodiaphragmatic Nodule
Hyperplasia

Minimal

Note: ANOM HEPAT LOB TGLs = 5-5

Pancreas

Acinus
Artery
Artery

Hyperplasia
Hypertrophy
Inflammation

Multifocal, Moderate
Marked
Subacute, Moderate

Note: PANCREAS:TGL 4 ON SLIDE II

Note: HYPERTROPHY TGLs = 4

[Hyperplasia TGLS = 4]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 132	TRT#: 5	SEX: Male	DAY ON TEST: 484
	DOSE: 30 MG/KG	DISP: Moribund	HISTO: A83028917

ORGAN AND ACCOUNTABLE SITE STATUS

[Hypertrophy TGLS = 4]			
Parathyroid Gland		Hyperplasia	Moderate
Preputial Gland		Inflammation	Subacute, Mild
Note: PREPUTIAL GL:TGL 1 ON SLIDE 7B			
Note: INFLAMMATION TGLs = 1			
Stomach	Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 101

DOSE: 30 MG/KG

DISP: Dosing Accident

HISTO: A82026210

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
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Lung		Congestion	Moderate
		Foreign Body	Moderate
[Foreign Body TGLS = 1-4]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Preputial Gland		Inflammation	Subacute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 693

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A8501453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Ear	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	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Malignant	
Note: LEUKEMIA MONUC	TGLs = 5-8		
Note: LEUKEMIA MONUC	TGLs = 5-8		
[Leukemia Mononuclear TGLs = 6-8]			
Bone Marrow		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-9		
Brain		Hemorrhage	Multifocal, Marked
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 9-1		
Note: LEUKEMIA MONUC	TGLs = 9-1		
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
		Basophilic Focus	
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: NECROSIS	TGLs = 7-2		
Note: LEUKEMIA MONUC	TGLs = 7-2		
Lung		Hemorrhage	Multifocal, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 693

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A8501453

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE	TGLs = 8-3		
Lymph Node		Mandibular	Leukemia Mononuclear
		Mediastinal	Leukemia Mononuclear
		Mesenteric	Leukemia Mononuclear
		Pancreatic	Leukemia Mononuclear
Note: LEUKEMIA MONUC	TGLs = 4-14		
Mammary Gland		Duct	Cyst
Pituitary Gland			Leukemia Mononuclear
Skin			Inflammation
	[Inflammation TGLS = 1-13]		Suppurative, Acute, Focal, Mild
Spleen			Leukemia Mononuclear
	[Leukemia Mononuclear TGLS = 3-15]		
Testes		Interstit Cell	Adenoma
			Leukemia Mononuclear
	[Adenoma TGLS = 2-6]		Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 622

DOSE: 30 MG/KG

DISP: Dead

HISTO: A84030995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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 - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Thymus
Trachea			

OBSERVATIONS

Bone		Osteosarcoma	
[Osteosarcoma TGLS = 7-41+41-1]			
Heart		Cardiomyopathy	Moderate
		Mineralization	Multifocal, Mild
Kidney	Renal Tubule	Dilatation	Multifocal, Moderate
		Hydronephrosis	Marked
	Pelvis	Inflammation	Suppurative, Acute, Moderate
		Inflammation	Suppurative, Acute, Multifocal, Moderate
	Renal Tubule	Mineralization	Multifocal, Mild
	Papilla	Necrosis	Marked
[Hydronephrosis TGLS = 3-6]			
Liver		Fatty Change	Diffuse, Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 4-5			
Note: [FATTY CHANGE] TGLs = 4-5			
[Hepatodiaphragmatic Nodule TGLS = 5-21]			
Lung		Congestion	Mild
[Congestion TGLS = 6-4]			
Nose		Inflammation	Suppurative, Acute, Mild
Prostate		Inflammation	Suppurative, Acute, Marked
Spleen		Fibrosis	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 622

DOSE: 30 MG/KG

DISP: Dead

HISTO: A84030995

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Hyperplasia	Mild
	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	
Thyroid Gland	Follicle	Cyst	
Urinary Bladder		Inflammation	Suppurative, Acute, Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501455

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 - Mesenteric	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Moderate
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Minimal
Note: [BASOPH FOCUS] TGLs = 6-13			
Note: [HYPERPLASIA] TGLs = 6-13			
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 4-15]			
Nose		Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 136	TRT#: 5	SEX: Male	DAY ON TEST: 735
	DOSE: 30 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501455

ORGAN AND ACCOUNTABLE SITE STATUS

Skin	Pars Distalis	Leukemia Mononuclear	
[Squamous Cell Papilloma TGLS = 5-14]		Squamous Cell Papilloma	
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]		Atrophy	Moderate
[Atrophy TGLS = 3-6]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501456

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 - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Atrophy	Multifocal, Mild
	Acinus	Hyperplasia	Focal, Mild
Preputial Gland	Duct	Cyst	
		Inflammation	Subacute, Mild
Note: CYST	TGLs = 1-8		
[Inflammation TGLS = 1-8]			
Stomach	Glandular	Mineralization	Minimal
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA	TGLs = 2-6		
Thyroid Gland	C Cell	Hyperplasia	Multifocal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 707

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A8501457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Epididymis	Esophagus	Harderian Gland
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mesenteric	Preputial Gland	Salivary Glands	Seminal Vesicle
Stomach - Glandular	Testes	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	Multiple, Mild
	Medulla	Hyperplasia	Focal, Minimal
Bone		Fibrous Osteodystrophy	Mild
Brain		Compression	Mild
Note: COMPRESSION	TGLs = 7-1		
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 3-5		
Liver	Bile Duct	Hyperplasia	Minimal
		Necrosis	Multifocal, Minimal
Lymph Node	Mandibular	Ectasia	Moderate
Mammary Gland	Duct	Cyst	
Note: CYST	TGLs = 1-7		
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Pancreas	Acinus	Hyperplasia	Focal, Moderate
Note: [HYPERPLASIA]	TGLs = 4-14		
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hematoidin, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: PIGMENT	TGLs = 6-1		
Note: ANGIECTASIS	TGLs = 6-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 707

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A8501457

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA [Adenoma TGLS = 6-1]	TGLs = 6-1			
Prostate			Inflammation	Subacute, Moderate
Skin		Subcut Tiss	Lipoma	
Note: LIPOMA	TGLs = 2-13			
Spleen			Hematopoietic Cell Proliferation	Mild
Stomach		Forestomach	Edema	Marked
		Forestomach	Inflammation	Subacute, Marked
		Forestomach	Perforation	Marked
Note: EDEMA	TGLs = 5-15			
Note: PERFORATION	TGLs = 5-15			
Note: INFLAMMATION	TGLs = 5-15			
Thyroid Gland		C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501458

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 - Mandibular	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Moderate
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
	Duct	Cyst	
Mammary Gland	Pars Distalis	Adenoma	
Pituitary Gland		Inflammation	Subacute, Mild
Preputial Gland		Adenoma	Multiple
Testes	Interstit Cell		

[Adenoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501459

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 - Mandibular	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Hyperplasia	Focal, Minimal
Stomach	Glandular	Mineralization	Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1460

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 - Mandibular
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Pancreas	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Prostate		Inflammation	Subacute, Mild
Skin	Subcut Tiss	Fibroma	
Note: [FIBROMA] TGLs = 2-14			
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Capsule, Cortex Medulla	Accessory Adrenal Cortical Nodule Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus Clear Cell Focus	
Lung	Bile Duct Fat, Mediastinum	Hyperplasia Infiltration Cellular Necrosis Pigmentation	Minimal Histiocyte, Multifocal, Mild Multifocal, Minimal Multifocal, Minimal
[Infiltration Cellular TGLS = 2-3] [Pigmentation TGLS = 2-3]			
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Mesentery [Necrosis TGLS = 1-13]	Fat	Necrosis	Focal, Mild
Nose	Nasolacrim Dct	Foreign Body Foreign Body Fungus	Mild Mild Moderate
	Nasolacrim Dct	Inflammation Inflammation	Subacute, Mild Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 142	TRT#: 5 DOSE: 30 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: A8501461
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ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
[Pigmentation TGLS = 3-1]			
Testes	Interstit Cell	Adenoma	Multiple
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 585

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83030471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Lung
Lymph Node - Mesenteric	Pancreas	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Bone		Fibrous Osteodystrophy	Minimal
Heart		Cardiomyopathy	Minimal
Intestine Small	Duodenum	Erosion	Multiple, Moderate
Islets, Pancreatic		Carcinoma	
Note: ISLETS PANC:TGL 2 IS ON SLIDE I			
Note: [CARCINOMA] TGLs = 2			
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 1-6]			
Liver		Fatty Change	Diffuse, Moderate
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ADENOMA TGLs = 5-1			
Note: ANGIECTASIS TGLs = 5-1			
Prostate		Inflammation	Subacute, Mild
Stomach	Forestomach	Edema	Moderate
	Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Subacute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 585

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83030471

ORGAN AND ACCOUNTABLE SITE STATUS

Glandular
Forestomach

Inflammation
Perforation

Subacute, Moderate
Marked

Note: PERFORATION TGLs = 3
Note: STOMACH:TGL 3 IS ON SLIDE 5B

Testes Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mesenteric	Nose
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hemorrhage	Marked
	Medulla	Hyperplasia	Focal, Moderate
	Medulla	Pheochromocytoma Benign	
Note: PHEOCHROM BGN TGLs = 4-14 [Pheochromocytoma Benign TGLS = 4-14]			
Bone		Fibrous Osteodystrophy	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5-5+15			
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Mild
Note: ADENOMA TGLs = 3-13			
Parathyroid Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Note: ADENOMA TGLs = 7-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 144	TRT#: 5 DOSE: 30 MG/KG	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: A8501463
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ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Subacute, Mild
Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-6]			
Thyroid Gland	C Cell Follicle	Adenoma Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501464

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	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Basophilic Focus	
		Fatty Change	Mild
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas	Acinus	Hyperplasia	Focal, Mild
Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-13]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mesenteric
Nose	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 147	TRT#: 5	SEX: Male	DAY ON TEST: 682
	DOSE: 30 MG/KG	DISP: Dead	HISTO: A85-1466

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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM MAL TGLs = 2-8	Medulla	Pheochromocytoma Malignant	
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Mild
Testes [Adenoma TGLS = 1-6]	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1467

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 Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Focal, Moderate
Preputial Gland		Inflammation	Subacute, Moderate
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1-6]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 149	TRT#: 5	SEX: Male	DAY ON TEST: 551
	DOSE: 30 MG/KG	DISP: Dosing Accident	HISTO: A83029845

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
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Lung		Congestion	Moderate
		Foreign Body	Mild
Note: CONGESTION	TGLs = 2-4		
Nose	Nasopharyn Dct	Cyst	
		Fungus	Moderate
	Nasopharyn Dct	Inflammation	Subacute, Mild
		Inflammation	Suppurative, Acute, Mild
Preputial Gland	Duct	Cyst	
Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric	Nose
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 1-8]		
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Minimal
Spleen		Leukemia Mononuclear	
Testes	Interstitial Cell	Adenoma	Multiple
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
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: A8501470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Lymph Node - Mesenteric
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OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 2	TRT#: 2	SEX: Female	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A8501471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone	Cranium	Osteopetrosis	Mild
Note: OSTEOPETROSIS TGLs = 5-14			
Bone Marrow		Leukemia Mononuclear	
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 4-2			
Lung		Infiltration Cellular	Histiocyte, Multifocal, Mild
		Leukemia Mononuclear	
		Pigmentation	Cholesterol, Multifocal, Mild
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
	Duct	Inflammation	Suppurative, Acute, Mild
Note: INFLAMMATION TGLs = 1-13			
			[Cyst TGLS = 1-13]
			[Fibroadenoma TGLS = 1-13]
Ovary		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 2	TRT#: 2	SEX: Female	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A8501471

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 2-6 Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Cyst	Mild
Note: ADENOMA TGLs = 6-1 Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2 Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 2	SEX: Female	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A8501472

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	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Uterus			

MISSING

Urinary Bladder

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Mild
		Infiltration Cellular	Histiocyte, Multifocal, Mild
		Pigmentation	Cholesterol, Multifocal, Mild
[Granuloma TGLS = 1-3]			
[Infiltration Cellular TGLS = 1-3]			
[Pigmentation TGLS = 1-3]			
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4	TRT#: 2	SEX: Female	DAY ON TEST: 567
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO: A83030007

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	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Focal, Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: TGL 5 IS ON SLIDE 6B.			
Note: LEUKEMIA MONUC TGLs = 5			
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: NECROSIS TGLs = 6-5			
Note: [HYPERPLASIA] TGLs = 6-5			
Note: LEUKEMIA MONUC TGLs = 6-5			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-4			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Nose		Leukemia Mononuclear	
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 4	TRT#: 2	SEX: Female	DAY ON TEST: 567
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO: A83030007

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 8-1 [Cyst TGLS = 8-1]	Pars Distalis	Leukemia Mononuclear	
Spleen [Leukemia Mononuclear TGLS = 3-2]		Leukemia Mononuclear	
Stomach	Glandular	Leukemia Mononuclear	
	Glandular	Ulcer	Mild
Thymus		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 5	TRT#: 2 DOSE: VEHICLE CONTROL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: A8501474
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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 - Mandibular	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2			
Lung		Infiltration Cellular	Histiocyte, Multifocal, Moderate
		Leukemia Mononuclear	
Note: INFILTRAT CELL TGLs = 6-3			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-13,2-14]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Uterus	Cervix	Abscess	Mild
	Cervix	Cyst	
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

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: A8501474

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ABSCESS TGLs = 3-15

Note: CYST TGLs = 3-15

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 2	SEX: Female	DAY ON TEST: 605
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A84031004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
[Adenoma TGLS = 8-1]			
[Cyst TGLS = 7-1]			
Spleen		Hematopoietic Cell Proliferation	Marked
		Leukemia Mononuclear	
[Hematopoietic Cell Proliferation TGLS = 4-2]			
[Leukemia Mononuclear TGLS = 4-2]			
Uterus		Hydrometra	Marked
		Sarcoma Stromal	
[Hydrometra TGLS = 2-7]			
[Sarcoma Stromal TGLS = 3-21]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
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: A8501476

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	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

Clitoral Gland		Carcinoma	
		Inflammation	Suppurative, Acute, Mild
[Carcinoma TGLS = 2-13]			
[Inflammation TGLS = 2-13]			
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
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:** A8501477

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	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Minimal
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Subacute, Minimal
Ovary		Cyst	
[Cyst TGLS = 1-6]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9	TRT#: 2	SEX: Female	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A8501478

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	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Focal, Minimal
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Skin		Inflammation	Subacute, Focal, Mild
Note: INFLAMMATION	TGLs = 1-13		
Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 2-6]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
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: A8501479

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	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1-7]			
[Fibroadenoma TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 11	TRT#: 2	SEX: Female	DAY ON TEST: 217
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO: A82027333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Uterus

MISSING

Adrenal Gland - Medulla	Intestine Small - Ileum	Intestine Small - Jejunum	Mammary Gland
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AUTO PRECLUDES DIAG.

Intestine Large - Cecum

OBSERVATIONS

Clitoral Gland		Inflammation	Suppurative, Acute, Mild
Kidney	Medulla	Inflammation	Suppurative, Acute, Marked
	Papilla	Necrosis	Marked
Note: NECROSIS TGLs = 2-6 [Inflammation TGLS = 2-6]			
Urinary Bladder		Inflammation	Suppurative, Acute, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 12

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501481

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	Lung	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

Adrenal Gland	Cortex	Focal Cellular Change	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: CYST	TGLs = 1-13		
Note: FIBROADENOMA	TGLs = 1-13		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
[Pigmentation TGLS = 2-1]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 2

SEX: Female

DAY ON TEST: 686

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A8501482

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	Parathyroid Gland
Salivary Glands	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-8			
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Minimal
		Leukemia Mononuclear	
Eye		Hemorrhage	Marked
[Hemorrhage TGLS = 1-13]			
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Note: LEUKEMIA MONUC TGLs = 6-2			
Lung		Granuloma	Multiple, Mild
		Infiltration Cellular	Histiocyte, Multifocal, Mild
		Leukemia Mononuclear	
		Pigmentation	Cholesterol, Multifocal, Mild
Note: PIGMENT TGLs = 8-3			
Note: INFILTRAT CELL TGLs = 8-3			
[Infiltration Cellular TGLS = 8-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 13	TRT#: 2	SEX: Female	DAY ON TEST: 686
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A8501482

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-14			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2-7]			
Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-1			
Note: HYPERPLASIA TGLs = 9-1			
[Hyperplasia TGLS = 9-1]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2]			
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Moderate
	Forestomach	Ulcer	Moderate
Note: HYPERPLASIA TGLs = 7-4			
Note: ULCER TGLs = 7-4			
[Ulcer TGLS = 7-4]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 14

TRT#: 2

SEX: Female

DAY ON TEST: 692

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO: A8501483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Kidney	Lymph Node - Mandibular	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	
Brain		Compression	Mild
[Compression TGLS = 4-1]			
Heart		Cardiomyopathy	Minimal
Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
Lung		Leukemia Mononuclear	
Mammary Gland		Granuloma	Multiple, Minimal
	Duct	Adenocarcinoma	
[Adenocarcinoma TGLS = 1-13]			
Mesentery		Cyst	
Note: [SARCOMA] TGLs = 2-14			
Nose	Nasolacrim Dct	Sarcoma	
Pituitary Gland	Pars Distalis	Inflammation	Subacute, Minimal
	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
Spleen		Angiectasis	Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 2

SEX: Female

DAY ON TEST: 626

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A84031005

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 - Mesenteric	Nose	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Intestine Large - Colon

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: [HYPERPLASIA] TGLs = 7-5			
Note: LEUKEMIA MONUC TGLs = 7-5			
Note: NECROSIS TGLs = 7-5			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
		Galactocele	
[Cyst TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21]			
[Galactocele TGLS = 2-21]			
Mesentery	Fat	Necrosis	Focal, Mild
Note: NECROSIS TGLs = 6-22			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 15	TRT#: 2	SEX: Female	DAY ON TEST: 626
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A84031005

ORGAN AND ACCOUNTABLE SITE STATUS

Ovary		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA TGLs = 9-1 [Adenoma TGLS = 9-1] [Angiectasis TGLS = 9-1] [Cyst TGLS = 9-1] [Pigmentation TGLS = 9-1]			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2-1,5-2-2			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501485

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 - Mandibular	Lymph Node - Mesenteric
Ovary	Pancreas	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Brain		Compression	Moderate
[Compression TGLS = 4-1]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Minimal
[Granuloma TGLS = 2-3]		Infiltration Cellular	Histiocyte, Multifocal, Minimal
[Infiltration Cellular TGLS = 2-3]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
[Pigmentation TGLS = 3-1]			
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501485

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
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: A8501486

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 - Mesenteric	Nose	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Ovary		Cyst	
[Cyst TGLS = 2-6]			
Pancreas	Acinus	Atrophy	Multifocal, Mild
	Duct	Ectasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 1-1]			
[Angiectasis TGLS = 1-1]			
[Pigmentation TGLS = 1-1]			
Stomach	Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 18

TRT#: 2

SEX: Female

DAY ON TEST: 589

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A83030477

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	Kidney	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Thymus

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Mild
Note: [HYPERPLASIA] TGLs = 6-5			
[Leukemia Mononuclear TGLS = 6-5]			
[Necrosis TGLS = 6-5]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-4]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: LEUKEMIA MONUC TGLs = 8-1			
[Adenoma TGLS = 8-1]			
[Angiectasis TGLS = 8-1]			
[Pigmentation TGLS = 8-1]			
Skin		Cyst Epithelial Inclusion	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 18

TRT#: 2

SEX: Female

DAY ON TEST: 589

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A83030477

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
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: A8501488

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 - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: [HDN] TGLs = 2-13			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Pituitary Gland	Pars Distalis	Cyst	
Stomach	Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 20	TRT#: 2	SEX: Female	DAY ON TEST: 567
	DOSE: VEHICLE CONTROL	DISP: Dosing Accident	HISTO: A83030008

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 - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Foreign Body	Moderate
Note: FOREIGN BODY	TGLs = 1-4		
Thyroid Gland		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

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: A8501490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Capsule, Cortex Medulla	Accessory Adrenal Cortical Nodule Hyperplasia Basophilic Focus Granuloma	Focal, Minimal Multiple, Minimal
Liver		Ectasia	Minimal
Lymph Node	Mandibular	Cyst	
Mammary Gland	Duct	Inflammation	Subacute, Mild
Nose	Nasolacrim Dct	Cyst	
Ovary [Cyst TGLS = 1-6]		Atrophy	Multifocal, Mild
Pancreas	Acinus	Cyst	
Pituitary Gland	Pars Distalis Pars Distalis	Hyperplasia	Focal, Mild
Thyroid Gland [Cyst TGLS = 3-1] [Hyperplasia TGLS = 3-1] [Carcinoma TGLS = 2-3]	Follicular Cel	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 2

SEX: Female

DAY ON TEST: 210

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A83027334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5			
Note: TGL 5 IS ON SLIDE 6B.			
Brain		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6			
Liver		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Note: [HDN] TGLs = 10			
Note: TGL 10 IS ON SLIDE III.			
Note: LEUKEMIA MONUC TGLs = 9-5			
Lung		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2			
Note: TGL 11 IS ON SLIDE IV.			
Note: TGL 2 IS ON SLIDE I.			
Note: LEUKEMIA MONUC TGLs = 11			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 22	TRT#: 2	SEX: Female	DAY ON TEST: 210
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A83027334

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland	Duct	Cyst
Note: CYST TGLs = 1-8		
Mesentery		Leukemia Mononuclear
Note: TGL 7 IS ON SLIDE II.		
Note: LEUKEMIA MONUC TGLs = 7		
Spleen		Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 4-2		

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 2

SEX: Female

DAY ON TEST: 178

DOSE: VEHICLE CONTROL

DISP: Dosing Accident

HISTO: A82026720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Liver Centrilobular
Lung

Necrosis
Congestion
Foreign Body

Minimal
Mild
Moderate

[Foreign Body TGLS = 1-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501493

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 - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Clitoral Gland		Carcinoma	
	Duct	Cyst	
[Carcinoma TGLS = 1-8]			
[Cyst TGLS = 1-8]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Mild
		Necrosis	Focal, Mild
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
Note: [HYPERPLASIA] TGLs = 3-1			
[Angiectasis TGLS = 3-1]			
Spleen		Hyperplasia	Lymphoid, Moderate
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501493

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
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: A8501494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Clitoral Gland		Adenoma	
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney	Cortex	Adenoma	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
[Cyst TGLS = 2-1]			
[Pigmentation TGLS = 2-1]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 26	TRT#: 2	SEX: Female	DAY ON TEST: 606
	DOSE: VEHICLE CONTROL	DISP: Moribund	HISTO: A84031006

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	Kidney	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Bone Marrow		Hyperplasia	Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
Ovary		Cyst	
Note: CYST	TGLs = 2-7		
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 27

TRT#: 2

SEX: Female

DAY ON TEST: 605

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A84031007

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	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	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Pancreas	Acinus	Atrophy	Multifocal, Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: [HYPERPLASIA] TGLs = 3-1			
[Angiectasis TGLS = 3-1]			
[Pigmentation TGLS = 3-1]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 28	TRT#: 2	SEX: Female	DAY ON TEST: 585
	DOSE: VEHICLE CONTROL	DISP: Dosing Accident	HISTO: A83030478

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	Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Brain		Glioma Malignant Hemorrhage	Multifocal, Moderate
Note: [GLIOMA MAL] TGLs = 4-1,5-1 [Hemorrhage TGLS = 4-1,5-1]			
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Mild
		Foreign Body	Moderate
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Mesentery	Fat	Necrosis	Focal, Moderate
Note: TGL 2 IS ON SLIDE I. [Necrosis TGLS = 2]			
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/22/2014

Test Type: CHRONIC

Test Compound: Furfural

Time Report Requested: 12:36:15

Route: GAVAGE

CAS Number: 98-01-1

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: SRI

ANIMAL ID: 29

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Hyperplasia	Focal, Mild
Eye	Retina	Cataract	Moderate
		Degeneration	Moderate
[Cataract TGLS = 1-13]			
[Degeneration TGLS = 1-13]			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: [HDN] TGLs = 3-15			
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-14]			
Pituitary Gland	Pars Distalis	Cyst	
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 2

SEX: Female

DAY ON TEST: 697

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO: A8501499

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	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Brain		Compression	Moderate
[Compression TGLS = 5-1]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Focal, Mild
Lung		Congestion	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
[Pigmentation TGLS = 4-1]			
Uterus		Polyp Stromal	
		Sarcoma Stromal	
[Polyp Stromal TGLS = 2-13]			
[Sarcoma Stromal TGLS = 3-14]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 31 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 731
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:** A8501500

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 - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gland	Duct	Cyst	
		Inflammation	Subacute, Moderate
			[Cyst TGLS = 2-8]
			[Inflammation TGLS = 2-8]
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
			[Cyst TGLS = 1-13]
			[Fibroadenoma TGLS = 1-13]
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 32	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A8501501

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 8-4]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2-7]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas	Acinus	Atrophy	Multifocal, Minimal
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
[Cyst TGLS = 7-1]			
Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2]			
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	Follicular Cel	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 33

TRT#: 2

SEX: Female

DAY ON TEST: 703

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO: A8501502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Liver		Basophilic Focus	
		Granuloma	Multiple, Mild
Lung		Congestion	Moderate
		Foreign Body	Mild
		Granuloma	Multiple, Minimal
[Congestion TGLS = 3-3]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 2-7]			
[Fibroadenoma TGLS = 1-13]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
[Pigmentation TGLS = 4-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 34

TRT#: 2

SEX: Female

DAY ON TEST: 592

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A83030479

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 - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Brain		Compression	Moderate
[Compression TGLS = 7-1]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Clear Cell Focus	
Note: [CLEAR CL FOCUS] TGLs = 4			
Note: TGL 4 IS ON SLIDE I.			
Lung		Infiltration Cellular	Histiocyte, Multifocal, Mild
[Infiltration Cellular TGLS = 5-4]		Pigmentation	Cholesterol, Multifocal, Mild
[Pigmentation TGLS = 5-4]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2-8]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 6-1]			
[Angiectasis TGLS = 6-1]			
[Pigmentation TGLS = 6-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Stomach - Forestomach
Uterus

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Trachea

OBSERVATIONS

Heart
Intestine Large
Kidney
Liver

Lung

[Granuloma TGLS = 1-3]
Pancreas
Pituitary Gland

Spleen
Stomach
Thyroid Gland

Colon

Acinus
Pars Distalis
Pars Distalis

Glandular
C Cell

Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Leukemia Mononuclear
Granuloma
Leukemia Mononuclear

Atrophy
Adenoma
Angiectasis
Leukemia Mononuclear
Mineralization
Hyperplasia

Mild
Mild
Chronic, Minimal

Multiple, Mild

Multifocal, Mild
Mild
Minimal
Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
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:** A8501505

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	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Hepatocyte	Cytomegaly	Mild
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Mild
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1-7]			
[Fibroadenoma TGLS = 2-13]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas	Acinus	Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
[Pigmentation TGLS = 4-1]			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 2

SEX: Female

DAY ON TEST: 690

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO: A8501506

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	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Brain		Compression	Mild
[Compression TGLS = 5-1]			
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]	Pars Distalis	Angiectasis	Marked
[Angiectasis TGLS = 4-1]	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Pigmentation TGLS = 4-1]			
Stomach	Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

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: A84031562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Salivary Glands
Thymus
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Skin
Thyroid Gland

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Trachea

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

MISSING

Pituitary Gland

OBSERVATIONS

Kidney
Liver

Nephropathy
Basophilic Focus
Granuloma
Leukemia Mononuclear
Granuloma
Cyst
Granulosa Cell Tumor Malignant

Chronic, Minimal
Multiple, Minimal
Multiple, Mild

Lung
Mammary Gland
Ovary

Duct

Note: GRANLSA TM MAL TGLs = 1-21+21-1
Spleen

Hematopoietic Cell Proliferation
Leukemia Mononuclear

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 2

SEX: Female

DAY ON TEST: 637

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO: A84031008

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 - Mesenteric
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	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: [HYPERPLASIA] TGLs = 9-5			
[Leukemia Mononuclear TGLS = 9-5]			
[Necrosis TGLS = 9-5]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-4			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Leukemia Mononuclear	
Note: CYST TGLs = 11-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 39

TRT#: 2

SEX: Female

DAY ON TEST: 637

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO: A84031008

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 11-1] [Cyst TGLS = 11-1] Spleen		Fibrosis Hemorrhage Leukemia Mononuclear	Focal, Mild Focal, Mild
[Fibrosis TGLS = 6-22] [Hemorrhage TGLS = 6-22] [Leukemia Mononuclear TGLS = 4-2-1] Thyroid Gland Uterus	Follicle	Cyst Leukemia Mononuclear Polyp Stromal	
[Polyp Stromal TGLS = 3-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501509

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 - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
Note: [CLEAR CL FOCUS]			
TGLs = 3-2			
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2-7]			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Uterus		Polyp Stromal	Multiple
Note: POLYP STROMAL			
TGLs = 1-13			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 41	TRT#: 2	SEX: Female	DAY ON TEST: 645
	DOSE: VEHICLE CONTROL	DISP: Dead	HISTO: A84031009

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
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 Malignant	
Note: [PHEOCHROM MAL] TGLs = 2-22			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Mineralization	Multifocal, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Lung		Congestion	Moderate
Note: CONGESTION TGLs = 3-4			
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Cyst	
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-21]			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 42	TRT#: 2	SEX: Female	DAY ON TEST: 177
	DOSE: VEHICLE CONTROL	DISP: Dosing Accident	HISTO: A82026690

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
Liver	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Lung	Congestion	Mild
	Foreign Body	Marked

[Foreign Body TGLS = 1-4]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501512

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	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1-7]			
[Fibroadenoma TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
[Pigmentation TGLS = 5-1]			
Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 3-14,4-15]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 44

TRT#: 2

SEX: Female

DAY ON TEST: 631

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A84031010

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	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Brain		Compression	Moderate
[Compression TGLS = 6-1]			
Islets, Pancreatic		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Fatty Change	Mild
		Granuloma	Multiple, Mild
	Bile Duct	Hyperplasia	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-21]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
	Glandular	Inflammation	Subacute, Mild
	Forestomach	Ulcer	Moderate
Uterus		Cyst	
[Cyst TGLS = 3-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 2

SEX: Female

DAY ON TEST: 631

DOSE: VEHICLE CONTROL

DISP: Moribund

HISTO: A84031010

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501514

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	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Medulla	Infiltration Cellular	Lymphocyte, Multifocal, Mild
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-13]			
Pancreas	Acinus	Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Glandular

Bone
Esophagus
Intestine Large - Rectum
Lung
Ovary
Skin
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

OBSERVATIONS

Islets, Pancreatic
Kidney
Liver

Mammary Gland
Pituitary Gland

Thyroid Gland
Uterus

Bile Duct
Duct
Pars Distalis
Pars Distalis
Pars Distalis
Pars Distalis
C Cell

Hyperplasia
Nephropathy
Basophilic Focus
Granuloma
Hyperplasia
Cyst
Adenoma
Angiectasis
Cyst
Pigmentation
Hyperplasia
Polyp Stromal

Minimal
Chronic, Minimal
Multiple, Minimal
Mild
Moderate
Hemosiderin, Mild
Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 47

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501516

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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Note: [HYPERPLASIA] TGLs = 4-2 [Leukemia Mononuclear TGLS = 4-2] [Necrosis TGLS = 4-2]			
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Ovary		Cyst	
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Hemosiderin, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501516

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-1]

[Angiectasis TGLS = 5-1]

[Pigmentation TGLS = 5-1]

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-2]

Stomach

Glandular

Mineralization

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 48 TRT#: 2 SEX: Female DAY ON TEST: 732
DOSE: VEHICLE CONTROL DISP: Terminal Sacrifice HISTO: A8501517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	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	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Clitoral Gland	Duct	Adenoma	
		Cyst	
	[Adenoma TGLS = 2-8]		
	[Cyst TGLS = 2-8]		
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
	Note: [HYPERPLASIA] TGLs = 6-2		
	[Leukemia Mononuclear TGLS = 6-2]		
	[Necrosis TGLS = 6-2]		
Lung		Granuloma	Multiple, Minimal
		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1-13,3-14]		
Pituitary Gland	Pars Distalis	Cyst	
Salivary Glands		Atrophy	Multifocal, Mild
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-2]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501517

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Hyperplasia

Focal, Mild

Uterus

Polyp Stromal

[Polyp Stromal TGLS = 4-15]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A8501518

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	Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Intestine Large	Rectum	Parasite Metazoan	Mild
Liver		Basophilic Focus	
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ANGIECTASIS TGLs = 2-1			
[Adenoma TGLS = 2-1]			
[Pigmentation TGLS = 2-1]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 2

SEX: Female

DAY ON TEST: 571

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO: A83030480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Brain		Compression	Mild
Note: COMPRESSION TGLs = 7-1			
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Focal, Moderate
		Leukemia Mononuclear	
Note: [HYPERPLASIA] TGLs = 5-5			
Mammary Gland	Duct	Adenocarcinoma	
		Cyst	
Note: TGL 3 IS ON SLIDE I.			
[Adenocarcinoma TGLS = 3]			
[Cyst TGLS = 2-8]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 6-1]			
[Angiectasis TGLS = 6-1]			
[Cyst TGLS = 6-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 2

SEX: Female

DAY ON TEST: 571

DOSE: VEHICLE CONTROL

DISP: Dead

HISTO: A83030480

ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLS = 6-1]

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 51	TRT#: 4	SEX: Female	DAY ON TEST: 297
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83027701

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 - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Intestine Large - Rectum

OBSERVATIONS

Kidney	Nephropathy	Chronic, Minimal
Liver	Hepatodiaphragmatic Nodule	Mild
Note: TGL 1 IS ON SLIDE I.		
Note: [HDN] TGLs = 1		
Lung	Congestion	Moderate
	Foreign Body	Moderate
[Foreign Body TGLS = 2-4]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 52	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Thymus
Thyroid Gland	Trachea	Uterus	

MISSING

Intestine Large - Rectum	Intestine Small - Ileum	Urinary Bladder
--------------------------	-------------------------	-----------------

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Pancreas	Acinus	Adenoma	
Note: ADENOMA TGLs = 2-13			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
Stomach	Glandular	Mineralization	Mild
	Forestomach	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 3-4.1]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 53

TRT#: 4

SEX: Female

DAY ON TEST: 297

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83027702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Lung

Congestion
Foreign Body

Moderate
Moderate

Note: CONGESTION TGLs = 3-4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 54	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501523

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 - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Ovary		Cyst	
[Cyst TGLS = 1-6]			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
		Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 4

SEX: Female

DAY ON TEST: 654

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84030988

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 - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Brain		Compression	Marked
Note: COMPRESSION TGLs = 5-1			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: TGL 3 IS HEPATODIAPHRAGMATIC NODULE.			
Note: ANOM HEPAT LOB TGLs = 3-22			
Note: [HDN] TGLs = 2-21			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ANGIECTASIS TGLs = 4-1			
Note: ADENOMA TGLs = 4-1			
[Adenoma TGLS = 4-1]			
Stomach	Forestomach	Hyperplasia	Minimal
	Forestomach	Inflammation	Subacute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 4

SEX: Female

DAY ON TEST: 654

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84030988

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 56	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501525

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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 57

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501526

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	Lymph Node - Mandibular	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	Medulla	Hyperplasia	Focal, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Granuloma	Multiple, Minimal
		Hyperplasia	Minimal
		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA	TGLs = 2-1		
Note: CYST	TGLs = 2-1		
Note: PIGMENT	TGLs = 2-1		
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 58

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A8501527

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 - Mandibular
Lymph Node - Mesenteric	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Minimal
		Necrosis	Focal, Minimal
Note: [CLEAR CL FOCUS] TGLs = 6-17			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
[Cyst TGLS = 1-7]			
[Fibroadenoma TGLS = 2-13,3-14]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas	Acinus	Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 7-1]			
[Angiectasis TGLS = 7-1]			
[Pigmentation TGLS = 7-1]			
Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 4-15,5-16]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501528

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	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	Medulla	Hyperplasia	Focal, Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-61]			
Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-9]			
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Centrilobular	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
Mesentery	Fat	Necrosis	Focal, Marked
[Necrosis TGLS = 4-14]			
Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501528

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland
[Cyst TGLS = 6-1]

Pars Distalis

Cyst

Spleen
[Leukemia Mononuclear TGLS = 3-2]

Leukemia Mononuclear

Thyroid Gland
C Cell

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 60

TRT#: 4

SEX: Female

DAY ON TEST: 374

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83028082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Liver Basophilic Focus
Lung Congestion
Foreign Body

Moderate
Moderate

[Foreign Body TGLS = 3-4]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 61

TRT#: 4

SEX: Female

DAY ON TEST: 327

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83027860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Liver Basophilic Focus
Lung Congestion
Foreign Body

Mild
Moderate

[Foreign Body TGLS = 2-4]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 62	TRT#: 4 DOSE: 60 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: A84031555
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen	Acinus	Hyperplasia	Focal, Minimal
Uterus		Hematopoietic Cell Proliferation	Marked
		Polyp Stromal	
		Prolapse	Moderate
		[Polyp Stromal TGLS = 5-9]	
		[Prolapse TGLS = 6-9]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:15
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 63

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Lung	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Minimal
Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Mild
Note: OSTEOPETROSIS TGLs = 2-13			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Minimal
Lymph Node	Mandibular	Ectasia	Mild
Ovary		Cyst	
[Cyst TGLS = 1-6]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Stomach	Forestomach	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 4

SEX: Female

DAY ON TEST: 708

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A8501533

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 - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Cortex	Hematopoietic Cell Proliferation	Mild
Bone Marrow		Hyperplasia	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Marked
Spleen		Hematopoietic Cell Proliferation	Mild
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
Uterus		Polyp Stromal	

[Polyp Stromal TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:15

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 4

SEX: Female

DAY ON TEST: 627

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84030989

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	Trachea

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6-1		
Note: LEUKEMIA MONUC	TGLs = 7-6-1		
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Mild
		Leukemia Mononuclear	
[Hemorrhage TGLS = 11-1]			
[Leukemia Mononuclear TGLS = 11-1]			
Heart		Leukemia Mononuclear	
	Valve	Thrombosis	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: [HYPERPLASIA]	TGLs = 8-5		
[Leukemia Mononuclear TGLS = 8-5]			
[Necrosis TGLS = 8-5]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-4,10-4]			
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 65	TRT#: 4	SEX: Female	DAY ON TEST: 627
	DOSE: 60 MG/KG	DISP: Moribund	HISTO: A84030989

ORGAN AND ACCOUNTABLE SITE STATUS

	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-23			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21]			
Ovary		Cyst	
		Inflammation	Chronic, Moderate
		Leukemia Mononuclear	
[Cyst TGLS = 4-22]			
[Inflammation TGLS = 4-22]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-2-1]			
Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Urinary Bladder		Leukemia Mononuclear	
Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Small - Duodenum
Lung
Ovary
Skin
Thyroid Gland

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

MISSING

Intestine Large - Cecum

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Granuloma
Mixed Cell Focus

Moderate
Chronic, Minimal
Multiple, Mild

Note: [MIXED CL FOCUS] TGLs = 2-13

Mammary Gland
Pituitary Gland

Duct
Pars Distalis
Pars Distalis
Glandular

Cyst
Cyst
Hyperplasia
Mineralization
Polyp Stromal

Focal, Mild
Minimal

[Polyp Stromal TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 67	TRT#: 4	SEX: Female	DAY ON TEST: 297
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83027703

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 - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Capsule, Cortex	Accessory Adrenal Cortical Nodule	
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Moderate
		Foreign Body	Moderate

[Foreign Body TGLS = 2-4]

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 68	TRT#: 4	SEX: Female	DAY ON TEST: 564
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83030000

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
Liver	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Lung		Congestion	Moderate
		Foreign Body	Moderate
[Foreign Body TGLS = 3-4]			
Mesentery	Fat	Necrosis	Focal, Moderate
Note: TGL 1 IS ON SLIDE I.			
[Necrosis TGLS = 1]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 69

TRT#: 4

SEX: Female

DAY ON TEST: 698

DOSE: 60 MG/KG

DISP: Dead

HISTO: A8501538

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 - 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	
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Focal, Moderate
		Necrosis	Multifocal, Mild
Note: [HYPERPLASIA] TGLs = 5-2,6-2,9-16			
Lung		Congestion	Mild
		Infiltration Cellular	Histiocyte, Multifocal, Marked
[Congestion TGLS = 7-3]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-13,2-14]			
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: PIGMENT TGLs = 8-1			
Note: [HYPERPLASIA] TGLs = 8-1			
[Pigmentation TGLS = 8-1]			
Uterus		Hemorrhage	Mild
[Hemorrhage TGLS = 3-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 4

SEX: Female

DAY ON TEST: 698

DOSE: 60 MG/KG

DISP: Dead

HISTO: A8501538

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 70

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	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

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	Mild
Liver		Basophilic Focus	
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 71

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84031556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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 - Mesenteric
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Mild
	Bile Duct	Hyperplasia	Mild
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: CYST			
TGLs = 1-21			
[Fibroadenoma TGLS = 1-21]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 1-21-1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
Uterus		Hemorrhage	Moderate
		Polyp Stromal	
[Hemorrhage TGLS = 2-22]			
[Polyp Stromal TGLS = 3-9+9-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A84031556

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 72	TRT#: 4	SEX: Female	DAY ON TEST: 440
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83028608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Kidney	Liver	Mammary Gland	Nose
Ovary	Parathyroid Gland	Pituitary Gland	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Mandibular	Lymph Node - Mesenteric	Salivary Glands
-------------------------	-------------------------	-----------------

AUTO PRECLUDES DIAG.

Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas

OBSERVATIONS

Lung	Congestion	Moderate
	Foreign Body	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501542

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	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Islets, Pancreatic		Hyperplasia	Focal, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Minimal
[Granuloma TGLS = 4-3]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-13]			
Pancreas	Acinus	Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 74

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501543

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 - Mandibular	Lymph Node - Mesenteric
Nose	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 4-8]			
Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1-15]			
[Degeneration TGLS = 1-15]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Adenocarcinoma	
	Duct	Cyst	
		Fibroadenoma	
[Adenocarcinoma TGLS = 2-13]			
[Fibroadenoma TGLS = 3-14]			
Ovary		Cyst	
[Cyst TGLS = 5-6]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 7-1]			
[Angiectasis TGLS = 7-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 74	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501543

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Uterus	Cervix	Hypertrophy	Moderate
[Hypertrophy TGLS = 8-16]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 4

SEX: Female

DAY ON TEST: 653

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84030990

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	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Skin	Spleen	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 9-1		
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Fatty Change	Diffuse, Mild
		Granuloma	Multiple, Mild
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
		Galactocele	Mild
Note: GALACTOCELE	TGLs = 4-23		
Note: FIBROADENOMA	TGLs = 2-21,3-22,5-24		
[Cyst TGLS = 1-8]			
Pancreas	Acinus	Atrophy	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ANGIECTASIS	TGLs = 8-1		
[Angiectasis TGLS = 8-1]			
Salivary Glands		Inflammation	Subacute, Moderate
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Subacute, Mild
	Glandular	Inflammation	Subacute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 4

SEX: Female

DAY ON TEST: 653

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84030990

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland
Uterus

Glandular
C Cell

Ulcer
Hyperplasia
Hemangioma
Polyp Stromal

Moderate
Focal, Minimal

Note: HEMANGIOMA TGLs = 7-25

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 4

SEX: Female

DAY ON TEST: 509

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83029358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Heart

Intestine Large - Cecum

Intestine Large - Colon

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Kidney

Lymph Node - Mandibular

Lymph Node - Mesenteric

Mammary Gland

Nose

Ovary

Pancreas

Pituitary Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

MISSING

Clitoral Gland

Esophagus

Parathyroid Gland

OBSERVATIONS

Intestine Large

Rectum

Parasite Metazoan

Mild

Liver

Basophilic Focus

Bile Duct

Hyperplasia

Minimal

Lung

Congestion

Mild

Foreign Body

Mild

[Foreign Body TGLS = 1-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 77	TRT#: 4	SEX: Female	DAY ON TEST: 466
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83028754

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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Uterus

MISSING

Clitoral Gland	Urinary Bladder
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OBSERVATIONS

Liver	Basophilic Focus	
Lung	Congestion	Moderate
	Foreign Body	Mild

[Foreign Body TGLS = 4-4]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Ovary
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 - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Clitoral Gland
Heart
Kidney
Liver

Inflammation
Cardiomyopathy
Nephropathy
Basophilic Focus
Clear Cell Focus
Cyst
Fibroadenoma

Subacute, Mild
Minimal
Chronic, Minimal

Mammary Gland

Duct

[Fibroadenoma TGLS = 1-13]

Pituitary Gland

Pars Distalis

Pars Distalis

Cyst
Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 79

TRT#: 4

SEX: Female

DAY ON TEST: 662

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84030991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Kidney	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	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	
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-5]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 2-8]			
[Fibroadenoma TGLS = 1-21]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
[Cyst TGLS = 5-1]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-2]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 4

SEX: Female

DAY ON TEST: 709

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A8501549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Salivary Glands
Thymus
Uterus

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Ovary
Skin
Thyroid Gland

Brain
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Stomach - Forestomach
Trachea

Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Bone

Medulla
Cranium
Femur

Hyperplasia
Osteopetrosis
Osteopetrosis

Focal, Minimal
Mild
Mild

Note: OSTEOPETROSIS TGLs = 6-16

Clitoral Gland
[Carcinoma TGLS = 5-15]

Carcinoma

Eye

Retina

Cataract
Degeneration

Mild
Mild

[Cataract TGLS = 1-17]
[Degeneration TGLS = 1-17]

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Leukemia Mononuclear

Minimal
Chronic, Mild

Lung
Mammary Gland

Duct

Granuloma
Cyst
Fibroadenoma

Multiple, Minimal

[Cyst TGLS = 2-7]
[Fibroadenoma TGLS = 3-13,4-14]

Nose
Pituitary Gland

Nasolacrim Dct
Pars Distalis
Pars Distalis

Inflammation
Cyst
Hyperplasia

Subacute, Minimal
Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 4

SEX: Female

DAY ON TEST: 709

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A8501549

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 60 MG/KG

DISP: Dead

HISTO: A8501550

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 - Mandibular	Lymph Node - Mesenteric	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Lung		Congestion	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
[Cyst TGLS = 3-1]			
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 4

SEX: Female

DAY ON TEST: 327

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83027861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney
Lung

[Foreign Body TGLS = 3-4]

Uterus

Nephropathy
Congestion
Foreign Body

Polyp Stromal

Chronic, Minimal
Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 83

TRT#: 4

SEX: Female

DAY ON TEST: 297

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83027704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Lung

Congestion
Foreign Body

Moderate
Moderate

[Foreign Body TGLS = 1-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 84

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Mild
Bone	Femur	Osteopetrosis	Mild
Clitoral Gland	Duct	Cyst	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Mild
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Moderate
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-13,2-14]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-15]			
Spleen		Hematopoietic Cell Proliferation	Moderate
Uterus		Cyst	
[Cyst TGLS = 4-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 85

TRT#: 4

SEX: Female

DAY ON TEST: 378

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83028099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Thymus
Uterus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Liver Basophilic Focus
Lung Congestion
Foreign Body

Mild
Moderate

[Foreign Body TGLS = 2-4]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 86

TRT#: 4

SEX: Female

DAY ON TEST: 602

DOSE: 60 MG/KG

DISP: Dead

HISTO: A83030470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Complex	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 6-23			
Intestine Large	Colon	Parasite Metazoan	Mild
	Rectum	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Congestion	Mild
[Congestion TGLS = 7-4]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 2-8]			
[Fibroadenoma TGLS = 3-21]			
Mesentery		Hemorrhage	Moderate
[Hemorrhage TGLS = 5-22]			
Ovary		Cyst	
[Cyst TGLS = 4-7]			
Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 86	TRT#: 4 DOSE: 60 MG/KG	SEX: Female DISP: Dead	DAY ON TEST: 602 HISTO: A83030470
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ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 8-1]			
[Angiectasis TGLS = 8-1]			
[Cyst TGLS = 8-1]			
[Pigmentation TGLS = 8-1]			
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 87	TRT#: 4	SEX: Female	DAY ON TEST: 632
	DOSE: 60 MG/KG	DISP: Moribund	HISTO: A84030992

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
Nose	Parathyroid Gland	Salivary Glands	Skin
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Islets, Pancreatic	Pancreas
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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, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Bronchial	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 3-8

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 87

TRT#: 4

SEX: Female

DAY ON TEST: 632

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A84030992

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 7-23
 Note: LEUKEMIA MONUC TGLs = 6-22
 Note: LEUKEMIA MONUC TGLs = 2-21
 Note: LEUKEMIA MONUC TGLs = 9-25
 Note: LEUKEMIA MONUC TGLs = 4-2
 Note: LEUKEMIA MONUC TGLs = 8-24

Mammary Gland
 [Cyst TGLS = 1-8]

Duct

Cyst

Mesentery

Leukemia Mononuclear

Ovary

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 11-1

Note: ANGIECTASIS TGLs = 11-1

Spleen

Leukemia Mononuclear

Stomach

Forestomach

Erosion

Mild

Forestomach

Hyperplasia

Mild

Forestomach

Leukemia Mononuclear

Glandular

Leukemia Mononuclear

Thymus

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 10-26

Uterus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 88	TRT#: 4	SEX: Female	DAY ON TEST: 267
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83027705

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	Liver
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Lung		Congestion	Moderate
		Foreign Body	Moderate

[Foreign Body TGLS = 3-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 89

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Clitoral Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1-8]			
[Fibroadenoma TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Focal, Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 90	TRT#: 4	SEX: Female	DAY ON TEST: 564
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83030001

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 - Mesenteric	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Minimal
[Angiectasis TGLS = 4-5]			
Lung		Congestion	Mild
		Foreign Body	Mild
[Foreign Body TGLS = 1-4]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 91

TRT#: 4

SEX: Female

DAY ON TEST: 438

DOSE: 60 MG/KG

DISP: Moribund

HISTO: A83028609

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	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Uterus

OBSERVATIONS

Brain		Compression	Marked
[Compression TGLS = 4-1]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 1-8			
Ovary		Cyst	
Note: CYST TGLs = 2-7			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
Stomach	Glandular	Erosion	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 92

TRT#: 4

SEX: Female

DAY ON TEST: 694

DOSE: 60 MG/KG

DISP: Dead

HISTO: A8501561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
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	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Brain

OBSERVATIONS

Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-8]			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
Note: [CLEAR CL FOCUS] TGLs = 5-14			
Note: [HDN] TGLs = 4-13			
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-15]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 4

SEX: Female

DAY ON TEST: 561

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83030002

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	Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Capsule, Cortex	Accessory Adrenal Cortical Nodule	Mild
Islets, Pancreatic		Adenoma	
Liver		Basophilic Focus	
		Clear Cell Focus	
[Basophilic Focus TGLS = 3-5,4-5]			
Lung		Congestion	Mild
		Foreign Body	Minimal
[Congestion TGLS = 1-4]			
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: AN UNIDENTIFIED TISSUE MASS IS BELIEVED TO BE AN

Animal Note: OSTEOSARCOMA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 94	TRT#: 4	SEX: Female	DAY ON TEST: 267
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A83027706

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 - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Liver	Basophilic Focus	
Note: TGL 3 IS ON SLIDE II.	Hepatodiaphragmatic Nodule	Mild
Note: [HDN] TGLs = 3		
Lung	Congestion	Moderate
Note: CONGESTION TGLs = 5-4	Foreign Body	Moderate
Thyroid Gland	Ultimobranchial Cyst	
Uterus	Hydrometra	Mild
Note: HYDROMETRA TGLs = 1-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 4

SEX: Female

DAY ON TEST: 694

DOSE: 60 MG/KG

DISP: Dead

HISTO: A8501564

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 - Mandibular	Lymph Node - Mesenteric
Mesentery	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Minimal
Kidney	Cortex	Cyst	
[Cyst TGLS = 3-16]			
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Mild
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-13,2-14]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 96	TRT#: 4	SEX: Female	DAY ON TEST: 698
	DOSE: 60 MG/KG	DISP: Dosing Accident	HISTO: A8501565

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 - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 2-2 [Basophilic Focus TGLS = 2-2]			
Lung		Congestion	Mild
		Foreign Body	Mild
[Congestion TGLS = 3-3]			
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 97	TRT#: 4	SEX: Female	DAY ON TEST: 730
	DOSE: 60 MG/KG	DISP: Terminal Sacrifice	HISTO: A84031557

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 - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	Mild
Note: [HDN] TGLs = 2-22			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 1-21+21-1+10]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 4

SEX: Female

DAY ON TEST: 161

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A82026661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Mesentery
Parathyroid Gland
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Pancreas
Skin
Thymus
Uterus

OBSERVATIONS

Lung

Congestion
Foreign Body

Moderate
Marked

[Foreign Body TGLS = 2-4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 99

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501568

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	Nose	Pancreas	Parathyroid 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	
Clitoral Gland		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-14,5-15,6-16+17]	Necrosis	Minimal
Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-3]		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Note: LEUKEMIA MONUC TGLs = 3-13		
Mammary Gland	Duct	Cyst	
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Leukemia Mononuclear	
	[Adenoma TGLS = 8-1]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 60 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501568

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 8-1]

[Leukemia Mononuclear TGLS = 8-1]

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-2]

Uterus

Leukemia Mononuclear

Polyp Stromal

[Leukemia Mononuclear TGLS = 1-6]

[Polyp Stromal TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 100

TRT#: 4

SEX: Female

DAY ON TEST: 557

DOSE: 60 MG/KG

DISP: Dosing Accident

HISTO: A83030003

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	Mesentery	Nose	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	
		Granuloma	Multiple, Mild
		Hyperplasia	Focal, Moderate
Lung		Congestion	Mild
		Foreign Body	Mild
[Congestion TGLS = 5-4]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Ovary		Cyst	
[Cyst TGLS = 3-7]			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
Uterus	Cervix	Abscess	Mild
	Cervix	Cyst	
		Polyp Stromal	

Note: ABSCESS TGLs = 2-7
[Cyst TGLS = 2-7]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 101

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501570

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 - Mesenteric	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Kidney	Cortex	Cyst	
[Cyst TGLS = 1-5]			
Liver		Basophilic Focus	
		Clear Cell Focus	
		Granuloma	Multiple, Minimal
		Hepatodiaphragmatic Nodule	Moderate
Note: ANOM HEPAT LOB TGLs = 2-13			
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy	Focal, Marked
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 102

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501571

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
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Capsule, Cortex Cortex	Accessory Adrenal Cortical Nodule Leukemia Mononuclear	Mild
Bone Marrow		Hyperplasia Leukemia Mononuclear	Mild
Clitoral Gland	Duct	Adenoma Cyst	
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Basophilic Focus Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Focal, Moderate
Mammary Gland	Duct	Cyst Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
Pancreas	Acinus	Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Cyst Hyperplasia	Mild Focal, Mild
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 102	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 30 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501571

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-2]

Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 103

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501572

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
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	
Clitoral Gland	Duct	Cyst	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Foreign Body	Mild
		Granuloma	Multiple, Mild
		Infiltration Cellular	Histiocyte, Multifocal, Moderate
		Leukemia Mononuclear	
[Granuloma TGLS = 4-3]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1-7]			
[Fibroadenoma TGLS = 2-13]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-14]			
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
Spleen		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 103

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501572

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A84031559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Salivary Glands
Thymus

Bone Marrow
Intestine Large - Colon
Islets, Pancreatic
Nose
Skin
Thyroid Gland

Brain
Intestine Small - Duodenum
Lung
Pancreas
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Clitoral Gland
[Cyst TGLS = 4-15]

Cortex
Duct

Inflammation
Cyst

Granulomatous, Mild

Heart
Intestine Large
Kidney
Liver

Rectum

Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Hyperplasia
Cyst
Fibroadenoma

Mild
Mild
Chronic, Minimal

Mammary Gland

Bile Duct
Duct

Hyperplasia
Cyst
Fibroadenoma

Minimal

Note: FIBROADENOMA TGLs = 1-21
[Cyst TGLS = 2-10]

Ovary
Pituitary Gland

Pars Distalis
Pars Distalis
Pars Distalis

Inflammation
Adenoma
Angiectasis
Pigmentation
Hematopoietic Cell Proliferation
Sarcoma Stromal

Granulomatous, Moderate
Moderate
Hemosiderin, Mild
Mild

Spleen
Uterus

Cervix

[Sarcoma Stromal TGLS = 3-22]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 105

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501574

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 - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Brain		Compression	Moderate
[Compression TGLS = 4-1]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]	Pars Distalis	Angiectasis	Marked
[Angiectasis TGLS = 3-1]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 106

TRT#: 6

SEX: Female

DAY ON TEST: 346

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83027923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Mammary Gland
Pituitary Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Nose

Fungus
Inflammation

Mild
Suppurative, Acute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 107

TRT#: 6

SEX: Female

DAY ON TEST: 599

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83030472

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 - Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Kidney	Renal Tubule Renal Tubule	Dilatation Mineralization Nephropathy	Multifocal, Moderate Focal, Minimal Chronic, Mild
Note: [MINERALIZATION] TGLs = 2-6 [Dilatation TGLS = 2-6] [Nephropathy TGLS = 2-6]			
Liver	Centrilobular	Basophilic Focus Fatty Change	Mild
Note: [FATTY CHANGE] TGLs = 3-5			
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 5-1			
Stomach	Glandular Forestomach Forestomach Forestomach Forestomach	Erosion Hyperkeratosis Hyperplasia Inflammation Ulcer	Multiple, Minimal Mild Mild Subacute, Moderate Moderate
Thyroid Gland	C Cell	Adenoma	
Note: ADENOMA TGLs = 4-3			
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 108

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501577

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	Lymph Node - Mandibular	Lymph Node - Mesenteric	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Capsule, Cortex	Accessory Adrenal Cortical Nodule	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
Lung		Granuloma	Multiple, Minimal
Mammary Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 1-13]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
[Pigmentation TGLS = 2-1]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 6

SEX: Female

DAY ON TEST: 459

DOSE: 30 MG/KG

DISP: Dead

HISTO: A83028755

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	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	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Minimal
Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Lung		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 2-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 110	TRT#: 6	SEX: Female	DAY ON TEST: 633
	DOSE: 30 MG/KG	DISP: Dead	HISTO: A84030996

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	Kidney	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Tongue
Trachea	Urinary Bladder	Uterus	

AUTO PRECLUDES DIAG.

Bone Marrow

OBSERVATIONS

Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Minimal
Lung	Centrilobular Alveolar Epith	Necrosis Hyperplasia Leukemia Mononuclear	Minimal Focal, Mild
[Hyperplasia TGLS = 4-4] Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8] Ovary		Cyst	
[Cyst TGLS = 2-7] Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 111

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501580

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 - Mandibular	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	Capsule, Cortex Cortex	Accessory Adrenal Cortical Nodule Focal Cellular Change	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus Clear Cell Focus Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia Granuloma	Minimal Multiple, Minimal
Lung		Cyst	
Mammary Gland	Duct		
[Cyst TGLS = 1-7]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-13]			
Ovary		Cyst	
[Cyst TGLS = 2-6]			
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Mild Hemosiderin, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 112

TRT#: 6

SEX: Female

DAY ON TEST: 700

DOSE: 30 MG/KG

DISP: Dead

HISTO: A8501581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Lymph Node - Mandibular	Lymph Node - Mesenteric	Ovary	Pancreas
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Mineralization	Multifocal, Moderate
	Cortex	Necrosis	Multifocal, Moderate
Blood Vessel	Aorta	Mineralization	Marked
Bone		Fibrous Osteodystrophy	Moderate
Heart		Inflammation	Chronic, Multifocal, Moderate
		Mineralization	Multifocal, Marked
Kidney	Renal Tubule	Mineralization	Multifocal, Marked
Liver		Basophilic Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	Mild
		Hyperplasia	Mild
Note: ANOM HEPAT LOB TGLs = 3-13			
Lung		Congestion	Mild
		Mineralization	Marked
Note: CONGESTION TGLs = 4-3			
Note: MINERALIZATION TGLs = 4-3			
Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 1-7			
Nose	Nasolacrim Dct	Inflammation	Subacute, Moderate
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Atrophy	Moderate
Stomach	Glandular	Mineralization	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 113

TRT#: 6

SEX: Female

DAY ON TEST: 668

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A84030997

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 - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Brain		Compression	Minimal
[Compression TGLS = 5-1]			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 3-4]			
Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 1-8			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
[Pigmentation TGLS = 4-1]			
Spleen		Atrophy	Mild
Stomach	Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Heart
Intestine Small - Ileum
Lung
Ovary
Skin
Thymus
Uterus

Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Spleen
Thyroid Gland

OBSERVATIONS

Adrenal Gland
Intestine Large
Liver

Cortex
Colon

Focal Cellular Change
Parasite Metazoan
Basophilic Focus
Granuloma
Cyst
Angiectasis
Hyperplasia

Mild
Multiple, Mild
Mild
Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 115

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501584

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 - Mandibular	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
Note: CATARACT TGLs = 1-14 [Cataract TGLS = 1-14]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: LEUKEMIA MONUC TGLs = 6-2			
Lung		Granuloma	Multiple, Minimal
		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Note: CYST TGLs = 2-7			
Nose	Nasolacrim Dct	Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Subacute, Mild
Ovary		Cyst	
Note: CYST TGLs = 3-6			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Leukemia Mononuclear	
[Adenoma TGLS = 7-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 115	TRT#: 6	SEX: Female	DAY ON TEST: 731
	DOSE: 30 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501584

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 7-1]			
Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
Note: LEUKEMIA MONUC TGLs = 5-2			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Uterus		Fibrosis	Mild
Note: [FIBROSIS] TGLs = 4-13.1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 6

SEX: Female

DAY ON TEST: 618

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A84030998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Parathyroid Gland
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pituitary Gland
Thymus
Uterus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Salivary Glands
Thyroid Gland

OBSERVATIONS

Bone
Note: FIBROSARC TGLs = 4-1+1-1
Heart
Kidney
Liver
Lymph Node
Nose
Pancreas
Skin
[Fibrosarcoma TGLS = 1-21]
Spleen

Cranium

Mandibular
Nasolacrim Dct
Acinus
Subcut Tiss

Fibrosarcoma

Cardiomyopathy
Nephropathy
Basophilic Focus
Ectasia
Inflammation
Hyperplasia
Fibrosarcoma

Metastatic (Skin)

Mild
Chronic, Mild

Mild
Suppurative, Acute, Mild
Focal, Mild

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 6

SEX: Female

DAY ON TEST: 354

DOSE: 30 MG/KG

DISP: Dosing Accident

HISTO: A83027984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
 Brain
 Intestine Large - Cecum
 Intestine Small - Ileum
 Lymph Node - Mandibular
 Ovary
 Salivary Glands
 Stomach - Glandular
 Urinary Bladder

Adrenal Gland - Medulla
 Clitoral Gland
 Intestine Large - Colon
 Intestine Small - Jejunum
 Lymph Node - Mesenteric
 Pancreas
 Skin
 Thymus
 Uterus

Bone
 Esophagus
 Intestine Large - Rectum
 Islets, Pancreatic
 Mammary Gland
 Parathyroid Gland
 Spleen
 Thyroid Gland

Bone Marrow
 Heart
 Intestine Small - Duodenum
 Kidney
 Nose
 Pituitary Gland
 Stomach - Forestomach
 Trachea

OBSERVATIONS

Liver
 Lung
 [Foreign Body TGLS = 2-4]

Bile Duct

Basophilic Focus
 Hyperplasia
 Congestion
 Foreign Body

Minimal
 Mild
 Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 6

SEX: Female

DAY ON TEST: 388

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83028199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
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	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Bone Marrow		Hyperplasia	Minimal
Intestine Large	Colon	Sarcoma Stromal	Metastatic (Uterus)
Note: SARC STROMAL TGLs = 6,9			
Kidney		Hydronephrosis	Moderate
[Hydronephrosis TGLS = 2-6]			
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Congestion	Mild
		Granuloma	Multiple, Minimal
[Congestion TGLS = 7-4]			
[Granuloma TGLS = 8-4]			
Urinary Bladder		Sarcoma Stromal	Metastatic (Uterus)
Note: TGL 5 ON SLIDE I			
[Sarcoma Stromal TGLS = 5]			
Uterus	Cervix	Sarcoma Stromal	
Note: TGL 4 ALSO ON SLIDE I			
[Sarcoma Stromal TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 119

TRT#: 6

SEX: Female

DAY ON TEST: 661

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A84030999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
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	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland	Parathyroid Gland
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OBSERVATIONS

Brain		Compression	Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-21]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Note: PIGMENT TGLs = 4-1			
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
Stomach	Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 120

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501589

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 - Mandibular	Lymph Node - Mesenteric	Ovary
Parathyroid 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		Hyperplasia	Mild
		Leukemia Mononuclear	
Brain		Compression	Moderate
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Intestine Large	Colon	Cyst	
Note: CYST	TGLs = 4-15		
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Granuloma	Multiple, Mild
		Leukemia Mononuclear	
Lung		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
Note: FIBROADENOMA	TGLs = 1-13,2-14		
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501589

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 5-1

Note: ANGIECTASIS TGLs = 5-1

Note: PIGMENT TGLs = 5-1

Spleen

Leukemia Mononuclear

Uterus

Hemorrhage

Mild

Note: HEMORRHAGE TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 121

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501590

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	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Capsule, Cortex Cortex Medulla	Accessory Adrenal Cortical Nodule Leukemia Mononuclear Leukemia Mononuclear	
Bone Marrow		Hyperplasia Leukemia Mononuclear	Mild
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear Nephropathy	Chronic, Mild
Liver	Bile Duct	Basophilic Focus Hyperplasia Leukemia Mononuclear	Mild
Lung	Centrilobular	Necrosis Leukemia Mononuclear	Minimal
Lymph Node	Mandibular Mesenteric Pancreatic	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Ovary		Cyst Leukemia Mononuclear	
[Cyst TGLS = 1-6]			
Pituitary Gland	Pars Distalis Pars Distalis	Angiectasis Hyperplasia	Moderate Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 121	TRT#: 6 DOSE: 30 MG/KG	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO: A8501590
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ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: [HYPERPLASIA] TGLs = 4-1 [Angiectasis TGLS = 4-1] [Leukemia Mononuclear TGLS = 4-1] [Pigmentation TGLS = 4-1]			
Spleen [Leukemia Mononuclear TGLS = 2-2]		Leukemia Mononuclear	
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 122

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501591

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	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Bone Marrow		Hyperplasia	Mild
Clitoral Gland		Adenoma	
Note: [ADENOMA] TGLs = 1-13			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Granuloma	Multiple, Mild
		Hematopoietic Cell Proliferation	Minimal
Mammary Gland	Duct	Adenocarcinoma	
		Cyst	
Note: [ADENOCARC] TGLs = 2-14 [Cyst TGLS = 3-7]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
Note: ADENOMA TGLs = 6-1 [Adenoma TGLS = 6-1] [Angiectasis TGLS = 6-1]			
Skin	Subcut Tiss	Abscess	Mild
Note: ABSCESS TGLs = 5-15			
Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 122

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501591

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach

Glandular

Mineralization

Minimal

Thyroid Gland

C Cell

Hyperplasia

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 123

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501592

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 - Mandibular
Lymph Node - Mesenteric	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13]		
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Pancreas	Acinus	Atrophy	Multifocal, Moderate
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
	Note: [HYPERPLASIA] TGLs = 3-1		
	[Angiectasis TGLS = 3-1]		
	[Cyst TGLS = 3-1]		
	[Pigmentation TGLS = 3-1]		
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 2-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 124

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501593

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	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Clear Cell Focus	
Lung		Granuloma	Multiple, Minimal
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-13]			
Pancreas	Acinus	Basophilic Focus	
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 2-3]			
Uterus		Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 125

TRT#: 6

SEX: Female

DAY ON TEST: 531

DOSE: 30 MG/KG

DISP: Dead

HISTO: A83029568

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 - Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	
	Centrilobular	Necrosis	Moderate
[Necrosis TGSL = 2-5]			
Lung		Congestion	Moderate
		Foreign Body	Minimal
		Infiltration Cellular	Histiocyte, Multifocal, Minimal
[Congestion TGSL = 3-4]			
Spleen		Atrophy	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 126

TRT#: 6

SEX: Female

DAY ON TEST: 582

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83030473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Capsule, Cortex	Accessory Adrenal Cortical Nodule	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mandibular	Ectasia	Moderate
Note: ECTASIA TGLs = 2-2			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1			
Note: TGL 1 IS ON SLIDE I			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
Stomach	Glandular	Inflammation	Subacute, Minimal
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
Tongue		Foreign Body	Mild
		Granuloma	Mild
		Squamous Cell Papilloma	
Note: TGL 3 IS ON SLIDE II			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 6

SEX: Female

DAY ON TEST: 582

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83030473

ORGAN AND ACCOUNTABLE SITE STATUS

Note: PAPANOMA SQUA TGLs = 3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 127

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric
Nose	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone	Cranium	Osteopetrosis	Moderate
	Femur	Osteopetrosis	Moderate
Note: OSTEOPETROSIS TGLs = 4-14			
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Note: [HDN] TGLs = 3-13			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Ovary		Cyst	
		Leukemia Mononuclear	
Note: CYST TGLs = 1-6			
Pancreas	Acinus	Atrophy	Multifocal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 127

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501596

ORGAN AND ACCOUNTABLE SITE STATUS

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Angiectasis

Marked

Pars Distalis

Cyst

Pars Distalis

Leukemia Mononuclear

Note: ADENOMA TGLs = 5-1

[Adenoma TGLS = 5-1]

[Angiectasis TGLS = 5-1]

[Cyst TGLS = 5-1]

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-2

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	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
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
Lung		Infiltration Cellular	Histiocyte, Multifocal, Minimal
Mammary Gland	Duct	Cyst	
Pancreas	Acinus	Atrophy	Multifocal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
[Adenoma TGLS = 1-1]			
[Angiectasis TGLS = 1-1]			
[Cyst TGLS = 1-1]			
[Pigmentation TGLS = 1-1]			
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Uterus		Adenoma	
		Polyp	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 129

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Salivary Glands
Thymus
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Skin
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Mammary Gland
Pituitary Gland

[Adenoma TGLS = 1-1]
[Angiectasis TGLS = 1-1]
[Cyst TGLS = 1-1]
[Pigmentation TGLS = 1-1]

Bile Duct
Duct
Pars Distalis
Pars Distalis
Pars Distalis
Pars Distalis

Cardiomyopathy
Nephropathy
Basophilic Focus
Hyperplasia
Cyst
Adenoma
Angiectasis
Cyst
Pigmentation

Mild
Chronic, Minimal

Minimal

Marked

Hemosiderin, Minimal

Stomach

Glandular

Mineralization

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 130

TRT#: 6

SEX: Female

DAY ON TEST: 654

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A84031000

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 - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Cortex	Leukemia Mononuclear	
Liver		Basophilic Focus	
		Leukemia Mononuclear	
Lung		Granuloma	Multiple, Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
Spleen		Leukemia Mononuclear	
Thyroid Gland	Follicle	Cyst	
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 131

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
Clitoral Gland		Inflammation	Subacute, Mild
Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
Lung	Bile Duct	Hyperplasia	Minimal
		Granuloma	Multiple, Minimal
		Infiltration Cellular	Histiocyte, Multifocal, Mild
		Pigmentation	Cholesterol, Multifocal, Minimal
Note: INFILTRAT CELL TGLs = 2-14			
Note: PIGMENT TGLs = 2-14			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
Pituitary Gland	Pars Distalis	Cyst	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 132

TRT#: 6

SEX: Female

DAY ON TEST: 562

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83030005

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 - Mandibular	Lymph Node - Mesenteric
Ovary	Parathyroid Gland	Skin	Spleen
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Brain		Compression	Minimal
[Compression TGLS = 5-1]			
Kidney		Nephropathy	Chronic, Moderate
Liver		Fatty Change	Diffuse, Mild
		Granuloma	Multiple, Minimal
Note: [FATTY CHANGE] TGLs = 3-5			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pancreas	Acinus	Hyperplasia	Multifocal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
[Pigmentation TGLS = 4-1]			
Salivary Glands		Inflammation	Subacute, Moderate
Stomach	Glandular	Erosion	Moderate
	Forestomach	Hyperplasia	Mild
	Forestomach	Ulcer	Marked
	Glandular	Ulcer	Moderate
Thyroid Gland		Ultimobranchial Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 132

TRT#: 6

SEX: Female

DAY ON TEST: 562

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A83030005

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 133

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501602

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 - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Fatty Change	Focal, Mild
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Stomach	Forestomach	Squamous Cell Papilloma	
Thyroid Gland	Follicle	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 134

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501603

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	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Bone Marrow		Hyperplasia Leukemia Mononuclear	Mild
Note: LEUKEMIA MONUC TGLs = 10-9			
Clitoral Gland		Adenoma Inflammation	Subacute, Mild
[Adenoma TGLS = 1-8]			
[Inflammation TGLS = 1-8]			
Heart		Cardiomyopathy	Minimal
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
Note: [CLEAR CL FOCUS] TGLs = 8-16			
Note: [EOSIN FOCUS] TGLs = 7-15			
[Leukemia Mononuclear TGLS = 6-17]			
Lung		Granuloma	Multiple, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 134

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501603

ORGAN AND ACCOUNTABLE SITE STATUS

		Infiltration Cellular	Histiocyte, Multifocal, Mild
Note: INFILTRAT CELL TGLs = 9-3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-13,3-14]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Ovary		Cyst	
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Note: ANGIECTASIS TGLs = 10-1			
Note: ADENOMA TGLs = 10-1			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 135

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
Clitoral Gland	Duct	Adenoma	
		Cyst	
Eye	Retina	Cataract	Moderate
		Degeneration	Mild
Note: DEGEN TGLs = 1-15			
Note: CATARACT TGLs = 1-15			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Mesentery	Fat	Necrosis	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 135

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1604

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

Pars Distalis
C Cell

Cyst
Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 136

TRT#: 6

SEX: Female

DAY ON TEST: 611

DOSE: 30 MG/KG

DISP: Dead

HISTO: A84031001

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	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung		Congestion	Moderate
Note: CONGESTION TGLs = 3-4			
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-21]			
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Atrophy	Mild
Uterus		Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-22			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 137	TRT#: 6	SEX: Female	DAY ON TEST: 735
	DOSE: 30 MG/KG	DISP: Terminal Sacrifice	HISTO: A84031560

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2]			
Stomach	Forestomach	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 138

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501607

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	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-61]			
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
[Leukemia Mononuclear TGLS = 5-14]			
Lung		Granuloma	Multiple, Mild
		Hemorrhage	Multifocal, Mild
		Leukemia Mononuclear	
[Granuloma TGLS = 8-3]			
[Hemorrhage TGLS = 7-3]			
Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 138	TRT#: 6	SEX: Female	DAY ON TEST: 735
	DOSE: 30 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501607

ORGAN AND ACCOUNTABLE SITE STATUS

	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13]			
Mammary Gland	Duct	Cyst	
Nose	Nasolacrim Dct	Cyst	
	Nasolacrim Dct	Inflammation	Subacute, Minimal
Ovary		Cyst	
		Leukemia Mononuclear	
Pancreas	Acinus	Atrophy	Multifocal, Mild
		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2]			
Thymus		Leukemia Mononuclear	
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 139

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1608

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 - Mandibular	Lymph Node - Mesenteric	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
Lung		Alveolar/Bronchiolar Carcinoma	
		Granuloma	Multiple, Mild
		Infiltration Cellular	Histiocyte, Multifocal, Minimal
		Pigmentation	Cholesterol, Multifocal, Minimal
[Alveolar/Bronchiolar Carcinoma TGLS = 3-3]			
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-13]			
Nose		Inflammation	Suppurative, Acute, Minimal
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-6]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 140

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A85-1609

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 - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
[Pigmentation TGLS = 2-1]			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
Uterus		Neovascularization	Moderate
		Pigmentation	Hemosiderin, Mild

Note: [NEOVASCUZATION] TGLs = 1-6

[Pigmentation TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 141

TRT#: 6

SEX: Female

DAY ON TEST: 465

DOSE: 30 MG/KG

DISP: Dosing Accident

HISTO: A83028756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Pituitary Gland
Stomach - Forestomach
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Glandular
Uterus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Skin
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Kidney
Mammary Gland
Parathyroid Gland
Spleen
Trachea

MISSING

Thymus

OBSERVATIONS

Lung

Congestion
Foreign Body
Polyp

Moderate
Mild

Vagina

Note: POLYP TGLs = 2

Note: POLYP, TGL 2 ON SLIDE II

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501611

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 - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-13]			
Pancreas	Acinus	Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	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
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Focal Cellular Change	
	Medulla	Leukemia Mononuclear	
Bone	Cranium	Osteopetrosis	Mild
	Femur	Osteopetrosis	Mild
[Osteopetrosis TGLS = 7-14]			
Brain		Compression	Mild
[Compression TGLS = 9-1]			
Clitoral Gland	Duct	Cyst	Multiple
		Inflammation	Subacute, Mild
[Cyst TGLS = 3-8,4-8]			
[Inflammation TGLS = 3-8,4-8]			
Eye	Retina	Cataract	Mild
		Degeneration	Mild
[Cataract TGLS = 1-15]			
[Degeneration TGLS = 1-15]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
Lung		Granuloma	Multiple, Minimal
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 143	TRT#: 6	SEX: Female	DAY ON TEST: 735
	DOSE: 30 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501612

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 5-13]	Fat	Necrosis	Focal, Moderate
Pancreas Pharynx Note: PAPILLOMA SQUA TGLs = 6-16	Acinus	Atrophy Squamous Cell Papilloma	Multifocal, Mild
Pituitary Gland [Adenoma TGLS = 8-1] [Angiectasis TGLS = 8-1] [Pigmentation TGLS = 8-1]	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Moderate Hemosiderin, Mild
Spleen		Leukemia Mononuclear	
Thyroid Gland	Follicle	Cyst	
Uterus [Hypertrophy TGLS = 10-6]	Cervix	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 144

TRT#: 6

SEX: Female

DAY ON TEST: 709

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A8501613

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
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Pancreas
Salivary Glands	Skin	Spleen	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Bone Marrow	Parathyroid Gland
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OBSERVATIONS

Brain		Compression	Moderate
[Compression TGLS = 9-1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 6-5]			
Liver		Basophilic Focus	
		Fatty Change	Diffuse, Mild
		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-13,3-14]			
Nose	Nasolacrim Dct	Inflammation	Subacute, Minimal
Ovary		Cyst	
[Cyst TGLS = 4-6]			
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]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 144	TRT#: 6 DOSE: 30 MG/KG	SEX: Female DISP: Moribund	DAY ON TEST: 709 HISTO: A8501613
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Subacute, Moderate
	Forestomach	Ulcer	Moderate
			[Hyperplasia TGLS = 7-4]
			[Inflammation TGLS = 7-4]
			[Ulcer TGLS = 7-4]
Thyroid Gland	C Cell	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 145

TRT#: 6

SEX: Female

DAY ON TEST: 610

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A84031002

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 - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Brain		Compression	Mild
[Compression TGLS = 8-1]			
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Centrilobular	Fatty Change	Moderate
		Granuloma	Multiple, Minimal
[Vacuolization Cytoplasmic TGLS = 5-22]		Vacuolization Cytoplasmic	Focal, Mild
Lung		Granuloma	Multiple, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-8]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Minimal
[Adenoma TGLS = 7-1]			
[Angiectasis TGLS = 7-1]			
[Pigmentation TGLS = 7-1]			
Stomach	Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Subacute, Moderate
	Forestomach	Ulcer	Moderate
[Hyperplasia TGLS = 4-5-1]			
[Inflammation TGLS = 4-5-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 6

SEX: Female

DAY ON TEST: 610

DOSE: 30 MG/KG

DISP: Moribund

HISTO: A84031002

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 4-5-1]

Uterus

Polyp Stromal

[Polyp Stromal TGLS = 3-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 146

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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 - 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	
	Medulla	Hyperplasia	Focal, Minimal
Bone	Femur	Osteopetrosis	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
Mammary Gland		Adenocarcinoma	
	Duct	Cyst	
[Adenocarcinoma TGLS = 1-13]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
[Pigmentation TGLS = 2-1]			
Spleen		Hematopoietic Cell Proliferation	Mild
Uterus	Cervix	Hypertrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 147	TRT#: 6	SEX: Female	DAY ON TEST: 735
	DOSE: 30 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Bone Marrow

OBSERVATIONS

Clitoral Gland		Carcinoma	
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: ADENOMA TGLs = 2-1			
Note: ANGIECTASIS TGLs = 2-1			
Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 148	TRT#: 6	SEX: Female	DAY ON TEST: 735
	DOSE: 30 MG/KG	DISP: Terminal Sacrifice	HISTO: A8501617

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	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Thymus

OBSERVATIONS

Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
		Granuloma	Multiple, Minimal
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Hyperplasia	Focal, Marked
[Angiectasis TGLS = 1-1]			
[Hyperplasia TGLS = 1-1]			
Stomach	Glandular	Mineralization	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
Time Report Requested: 12:36:16
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 149

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501618

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	Lymph Node - Mandibular	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
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
		Necrosis	Multifocal, Mild
[Leukemia Mononuclear TGLS = 4-2]			
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1-7]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-13]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild

Note: ADENOMA TGLs = 5-1
 Note: CYST TGLs = 5-1
 Note: PIGMENT TGLs = 5-1
 Note: ANGIECTASIS TGLs = 5-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501618

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Furfural

CAS Number: 98-01-1

Date Report Requested: 10/22/2014

Time Report Requested: 12:36:16

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 30 MG/KG

DISP: Terminal Sacrifice

HISTO: A8501619

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 - Mandibular	Lymph Node - Mesenteric
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland	Duct	Cyst Inflammation	Suppurative, Acute, Mild
Note: CYST TGLs = 1-8 [Inflammation TGLS = 1-8]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus Clear Cell Focus Granuloma	Multiple, Minimal Minimal
Mammary Gland	Bile Duct Duct	Hyperplasia Cyst Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 2-13,3-14			
Nose	Nasolacrim Dct	Inflammation	Subacute, Mild
Pancreas	Acinus	Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Moderate Hemosiderin, Mild
[Adenoma TGLS = 4-1] [Angiectasis TGLS = 4-1] [Pigmentation TGLS = 4-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05005-07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Furfural
CAS Number: 98-01-1

Date Report Requested: 10/22/2014
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First Dose M/F: NA / NA
Lab: SRI

**** END OF REPORT ****