

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

<b>C Number:</b>	C00602B
<b>Lock Date:</b>	01/08/1993
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912781

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	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	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 912782

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
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	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

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**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Minimal
Prostate	Concretion	Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912783

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	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	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Minimal
Liver		

Note: TGL 1 FOCI NOT SEEN ON MICRO EXAM

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912784

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Nose		Inflammation	Chronic, Mild
Pancreas	Acinus	Atrophy	Minimal
Preputial Gland		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1 <b>DOSE:</b> 0 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 912785
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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

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**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Minimal
Liver	Congestion	Mild
[ Congestion TGLS = 2-6.01 ]		
Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 1-8 ]		
Stomach, Forestomach	Hyperplasia	Squamous, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

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<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 912786

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Minimal
Liver			
Note: TGL 1 FOCI NOT SEEN ON MICRO EXAM			
Lung		Inflammation	Chronic, Mild
Nose	Glands	Inflammation	Acute, Minimal
Pancreas	Acinus	Atrophy	Minimal
Prostate		Inflammation	Chronic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912787

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lymph Node, Mandibular
Lymph Node, Mesenteric	Pancreas	Parathyroid 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**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Minimal
Liver		
Note: TGL 1 FOCI NOT SEEN ON MICRO EXAM		
Lung	Inflammation	Chronic, Minimal
Nose	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Cyst

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912788

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	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	

**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Minimal
Lung	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912789

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	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
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver			
Note: TGL 1 FOCI NOT SEEN ON MICRO EXAM			
Lung		Inflammation	Chronic, Mild
Nose	Glands	Inflammation	Acute, Minimal
Prostate		Concretion	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Mammary Gland

OBSERVATIONS

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Mild
Liver	Hepatodiaphragmatic Nodule	
Note: TGL 3 NOT SEEN AT MICRO EXAM. [ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ]		
Lung	Foreign Body	Minimal
	Inflammation	Chronic, Minimal
Nose	Inflammation	Chronic, Mild
Prostate	Concretion	Mild

PRIMARY CAUSE OF DEATH

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Animal Note: TGL 2 ENLARGED LYMPHOID TISSUE NORMAL ON MICRO EXAM

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 11

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912831

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Bone Marrow	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Spleen	Thymus		

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**OBSERVATIONS**

Eye	Conjunctiva	Inflammation	Chronic Active, Marked
[ Inflammation TGLS = 1-16 ]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 2-6.01 ]			

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

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**ANIMAL ID:** 12

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912832

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

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**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 13

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912833

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow

Liver

Lymph Node, Mandibular

Lymph Node, Mesenteric

Spleen

Thymus

**OBSERVATIONS**

Heart

Cardiomyopathy

Minimal

Kidney

Nephropathy

Mild

Lung

Foreign Body

Minimal

Inflammation

Chronic, Moderate

[ Inflammation TGLS = 1-2+3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 14

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912834

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

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**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Mild

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Urethane  
**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 12:01:25  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

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<b>ANIMAL ID:</b> 15	<b>TRT#:</b> 3 <b>DOSE:</b> 110 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 912835
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Bone Marrow	Lymph Node, Mandibular	Lymph Node, Mesenteric	Spleen
Thymus			

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**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Mild
Liver	Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ]		
Lung	Hemorrhage	Minimal
[ Hemorrhage TGLS = 3-2+2.01+3 ]	Inflammation	Chronic, Mild
[ Inflammation TGLS = 2-2.01+3 ]		

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 16

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912836

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

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**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 17

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912837

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

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**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

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**ANIMAL ID:** 18

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912838

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

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**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 19

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912839

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Mild

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 20

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912840

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 21

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912821

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney  
Lung

Cardiomyopathy  
Nephropathy

Minimal  
Mild

---

Note: TGL 1 FOCI ARE ARTIFACTUAL SUBPLEURAL BLOOD

---

PRIMARY CAUSE OF DEATH

-

---

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 22

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912822

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Mild

---

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 23

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912823

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Mild

---

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 24

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912824

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 25

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912825

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 26

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912826

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 27

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912827

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney  
Liver

Cardiomyopathy  
Nephropathy

Minimal  
Minimal

---

Note: TGL 1 FOCI NOT SEEN ON MICRO EXAM

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 28

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912828

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Spleen	Thymus		

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Infiltration Cellular	Mononuclear CI, Minimal
[ Infiltration Cellular TGLS = 2-6 ]			
Mesentery	Fat	Necrosis	Mild
[ Necrosis TGLS = 1-16 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 29

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912829

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Lung

Lymph Node, Mandibular

Lymph Node, Mesenteric

Spleen

Thymus

---

**OBSERVATIONS**

Heart

Cardiomyopathy

Minimal

Kidney

Nephropathy

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 30

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912830

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

Lymph Node, Mesenteric

---

**OBSERVATIONS**

Heart  
Kidney  
Liver

Cardiomyopathy  
Nephropathy  
Fatty Change

Minimal  
Mild  
Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 31

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 1100 PPM

DISP: Terminal Sacrifice

HISTO: 912811

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow	Liver	Lung	Lymph Node, Mandibular
Thymus			

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[ Infiltration Cellular TGLS = 1-9 ]			
Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 2-8 ]			
Spleen		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 32

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912812

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Thymus

Lung

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney  
Spleen  
Urinary Bladder

Cardiomyopathy  
Nephropathy  
Depletion Lymphoid  
Concretion

Minimal  
Minimal  
Minimal  
Mild

---

[ Concretion TGLS = 1-9 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Urethane  
**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 12:01:25  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

---

<b>ANIMAL ID:</b> 33	<b>TRT#:</b> 7 <b>DOSE:</b> 1100 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 912813
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---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Spleen	Thymus		

---

**OBSERVATIONS**

Bone Marrow	Myelofibrosis	Mild
Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Mild

---

**PRIMARY CAUSE OF DEATH** -

---

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 34

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912814

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Thymus

Lung

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney  
Spleen

Cardiomyopathy  
Nephropathy  
Depletion Lymphoid

Minimal  
Mild  
Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 35

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912815

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Minimal  
Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 36

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912816

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Thymus

Liver

Lymph Node, Mandibular

Lymph Node, Mesenteric

---

**OBSERVATIONS**

Heart  
Kidney  
Lung  
Spleen

Cardiomyopathy  
Nephropathy  
Inflammation  
Depletion Lymphoid

Minimal  
Mild  
Chronic, Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 37

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912817

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Nephropathy

Mild  
Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 38

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912818

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow	Liver	Lung	Lymph Node, Mandibular
Thymus			

---

**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Minimal
Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Mild
[ Hyperplasia TGLS = 1-8 ]		
Spleen	Depletion Lymphoid	Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 39

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912819

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Thymus

Lung

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney  
Spleen

Cardiomyopathy  
Nephropathy  
Depletion Lymphoid

Minimal  
Mild  
Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 40

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912820

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Prostate

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney  
Spleen

Cardiomyopathy  
Nephropathy  
Depletion Lymphoid

Minimal  
Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 41

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912801

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	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	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Mild
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 42

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912802

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**MISSING**

Mammary Gland

**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Mild
Spleen	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 43

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912803

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Pancreas
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLS = 2-6.01 ]		
Spleen		Depletion Lymphoid	Mild
Testes	Seminif Tub	Atrophy	Minimal
Urinary Bladder		Concretion	Moderate
	[ Concretion TGLS = 1-9 ]		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 44

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912804

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Mild
Prostate	Concretion	Moderate
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 45

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912805

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach, Glandular	Testes
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Nose	Glands	Inflammation	Acute, Minimal
Prostate		Concretion	Mild
Spleen		Depletion Lymphoid	Moderate
Stomach, Forestomach		Hyperplasia	Squamous, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 46

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal 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	Liver	Lung
Lymph Node, Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Mild
Lymph Node, Mandibular	Depletion Lymphoid	Mild
Nose	Inflammation	Chronic, Minimal
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 47

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912807

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	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	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**OBSERVATIONS**

Heart	Cardiomyopathy	Mild
Kidney	Nephropathy	Mild
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 48

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912808

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Mild
Nose	Inflammation	Chronic, Minimal
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 49

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912809

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Mild
Liver		Clear Cell Focus	
Pituitary Gland	Pars Distalis	Cyst	
Prostate		Concretion	Moderate
Spleen		Depletion Lymphoid	Mild
Testes	Seminif Tub	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 50

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912810

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach, Glandular
Testes	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Kidney	Nephropathy	Mild
Nose	Inflammation	Chronic, Minimal
Spleen	Depletion Lymphoid	Mild
Stomach, Forestomach	Hyperplasia	Squamous, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 51

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 86

**DOSE:** 10000 PPM

**DISP:** Accidentally Killed

**HISTO:** 912791

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Heart	Cardiomyopathy	Marked
Kidney	Nephropathy	Mild
Liver	Fatty Change	Mild
Lymph Node, Mandibular	Depletion Lymphoid	Moderate
Lymph Node, Mesenteric	Depletion Lymphoid	Moderate
Spleen	Congestion	Marked
	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 52

TRT#: 11

SEX: Male

DAY ON TEST: 86

DOSE: 10000 PPM

DISP: Natural Death

HISTO: 912792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach, Forestomach	Stomach, Glandular
Testes	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Preputial Gland

AUTO PRECLUDES DIAG.

Intestine Small, Ileum

OBSERVATIONS

Bone Marrow		Depletion Cellular	Mild
Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	
Kidney		Nephropathy	Minimal
Liver		Congestion	Marked
		Hepatodiaphragmatic Nodule	
		Thrombosis	Mild
	[ Congestion TGLS = 3-6 ]		
	[ Hepatodiaphragmatic Nodule TGLS = 1-6 ]		
Lymph Node, Mandibular		Depletion Lymphoid	Mild
Lymph Node, Mesenteric		Depletion Lymphoid	Mild
Spleen		Depletion Lymphoid	Moderate
Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 53

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 78

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:** 912793

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Epididymis	Esophagus	Kidney	Liver
Lung	Lymph Node, Mandibular	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

**AUTO PRECLUDES DIAG.**

Intestine Large, Cecum	Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum
Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic	Lymph Node, Mesenteric
Pancreas			

**OBSERVATIONS**

Bone Marrow	Depletion Cellular	Mild
Heart	Cardiomyopathy	Marked
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 54

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: 912794

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Heart	Cardiomyopathy	Marked
Kidney	Nephropathy	Mild
Liver	Clear Cell Focus	
	Fatty Change	Mild
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 55

TRT#: 11

SEX: Male

DAY ON TEST: 92

DOSE: 10000 PPM

DISP: Natural Death

HISTO: 912795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Intestine Small, Duodenum	Islets, Pancreatic
Liver	Lung	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

AUTO PRECLUDES DIAG.

Intestine Small, Ileum	Intestine Small, Jejunum
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OBSERVATIONS

Heart	Cardiomyopathy	Moderate
Kidney	Nephropathy	Mild
Lymph Node, Mandibular	Depletion Lymphoid	Mild
Lymph Node, Mesenteric	Depletion Lymphoid	Mild
Prostate	Inflammation	Chronic, Minimal
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 56

TRT#: 11

SEX: Male

DAY ON TEST: 90

DOSE: 10000 PPM

DISP: Natural Death

HISTO: 912796

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large, Cecum
Intestine Large, Colon	Intestine Large, Rectum	Islets, Pancreatic	Liver
Lung	Lymph Node, Mandibular	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**AUTO PRECLUDES DIAG.**

Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum	Lymph Node, Mesenteric
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**OBSERVATIONS**

Heart		Cardiomyopathy	Marked
	Atrium	Thrombosis	
Kidney		Nephropathy	Mild
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 57

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:** 912797

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	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			

**OBSERVATIONS**

Bone Marrow	Depletion Cellular	Mild
Heart	Cardiomyopathy	Marked
Kidney	Nephropathy	Minimal
Lymph Node, Mandibular	Depletion Lymphoid	Mild
Lymph Node, Mesenteric	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 58

TRT#: 11

SEX: Male

DAY ON TEST: 72

DOSE: 10000 PPM

DISP: Natural Death

HISTO: 912798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Epididymis	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Ileum	Intestine Small, Jejunum	Islets, Pancreatic
Lung	Lymph Node, Mandibular	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Seminal Vesicle	Skin	Stomach, Forestomach
Stomach, Glandular	Testes	Thyroid Gland	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Intestine Small, Duodenum

OBSERVATIONS

Bone Marrow	Depletion Cellular	Mild
Heart	Cardiomyopathy	Marked
Kidney	Nephropathy	Mild
Liver	Fatty Change	Mild
	Hepatodiaphragmatic Nodule	
[ Fatty Change TGLS = 2-6.01 ]		
[ Hepatodiaphragmatic Nodule TGLS = 3-6.01 ]		
Lymph Node, Mesenteric	Depletion Lymphoid	Moderate
Salivary Glands	Cytoplasmic Alteration	Mild
Spleen	Depletion Lymphoid	Mild
Thymus	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 59

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: 912799

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach, Forestomach	Stomach, Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**MISSING**

Mammary Gland

**OBSERVATIONS**

Heart	Cardiomyopathy	Marked
Kidney	Nephropathy	Mild
Liver	Fatty Change	Mild
Lymph Node, Mandibular	Depletion Lymphoid	Mild
Lymph Node, Mesenteric	Depletion Lymphoid	Mild
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 60

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912800

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Mammary Gland

**OBSERVATIONS**

Bone Marrow	Depletion Cellular	Mild
Heart	Cardiomyopathy	Marked
Kidney	Nephropathy	Mild
Liver	Fatty Change	Mild
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 61

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912841

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Adrenal Cortex	Adrenal 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	Lung	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

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 62

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912842

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Ovary
Pancreas	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
Nose		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 63

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912843

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Lung	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	Urinary Bladder	Uterus	

**OBSERVATIONS**

Trachea	Glands	Ectasia	Minimal
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 64

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912844

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	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**

Heart	Cardiomyopathy	Minimal
Lung	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 65

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912845

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

**OBSERVATIONS**

Bone Marrow		Myelofibrosis	Minimal
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
Stomach, Forestomach		Hyperplasia	Squamous, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 66

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912846

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Nose
Ovary	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
Pancreas	Acinus	Atrophy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 67

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912847

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
Lymph Node, Mandibular	Lymph Node, Mesenteric	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

**OBSERVATIONS**

Intestine Large, Colon		Inflammation	Chronic, Mild
Kidney	Cortex	Mineralization	Minimal
Pituitary Gland	Pars Distalis	Cyst	
[ Cyst TGLS = 1-8 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 68

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912848

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver
Lung	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**

Kidney	Cortex	Mineralization	Minimal
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 69

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912849

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
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**

Intestine Large, Colon		Inflammation	Chronic, Mild
Kidney	Cortex	Mineralization	Minimal
Nose		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 70

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912850

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver
Lung	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**

Kidney	Cortex	Mineralization	Minimal
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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 71

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912891

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mandibular

Heart  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

---

**OBSERVATIONS**

Kidney

Cortex

Mineralization

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 72

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912892

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow	Liver	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Spleen	Thymus	

---

**OBSERVATIONS**

Eye		Inflammation	Chronic Active, Marked
[ Inflammation TGLS = 1-15+15.1 ]			
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 73

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912893

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization

Minimal  
Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

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**ANIMAL ID:** 74

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912894

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization

Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 75

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912895

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization

Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 76

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912896

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization

Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 77

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912897

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow	Heart	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Spleen	Thymus	

---

**OBSERVATIONS**

Eye	Postr Chamber	Hemorrhage	Moderate
[ Hemorrhage TGLS = 1-15 ]			
Kidney		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 2-6.01 ]			

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 78

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912898

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mandibular

Heart  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

---

**OBSERVATIONS**

Kidney

Cortex

Mineralization

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 79

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912899

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mandibular

Kidney  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

---

**OBSERVATIONS**

Heart

Cardiomyopathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 80

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912900

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Heart

Kidney

Liver

Lung

Lymph Node, Mandibular

Lymph Node, Mesenteric

Spleen

Thymus

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 81

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912881

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Lung

Lymph Node, Mandibular

Lymph Node, Mesenteric

Spleen

Thymus

---

**OBSERVATIONS**

Heart

Cardiomyopathy

Minimal

Kidney

Cortex

Mineralization

Minimal

Liver

Basophilic Focus

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 82

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912882

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mandibular  
Urinary Bladder

Kidney  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

---

**OBSERVATIONS**

Heart  
Urin Bladder

Cardiomyopathy

Minimal

---

Note: TGL 1 THICK BLADDER WALL IS INFUSION ARTIFACT

---

PRIMARY CAUSE OF DEATH

---

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Urethane  
**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 12:01:25  
**First Dose M/F:** NA / NA  
**Lab:** TSI MASON

---

<b>ANIMAL ID:</b> 83	<b>TRT#:</b> 6 <b>DOSE:</b> 330 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 912883
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Spleen	Thymus		

---

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
Liver		Hepatodiaphragmatic Nodule	

---

[ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 84

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912884

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Lung

Lymph Node, Mandibular

Lymph Node, Mesenteric

Spleen

Thymus

---

**OBSERVATIONS**

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Minimal

Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 85

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912885

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization

Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 86

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912886

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization

Minimal  
Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 87

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912887

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Lung

Lymph Node, Mandibular

Lymph Node, Mesenteric

Spleen

Thymus

---

**OBSERVATIONS**

Heart

Cardiomyopathy

Minimal

Kidney

Cortex

Mineralization

Minimal

Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-6 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 88

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912888

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cardiomyopathy  
Inflammation

Minimal  
Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 89

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912889

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization

Minimal  
Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 90

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912890

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization

Minimal  
Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 91

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912871

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow  
Thymus

Lung

Lymph Node, Mandibular

Lymph Node, Mesenteric

**OBSERVATIONS**

Heart  
Kidney  
Liver  
Spleen

Cardiomyopathy  
Nephropathy  
Clear Cell Focus  
Depletion Lymphoid

Mild  
Minimal  
  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 92

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912872

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization  
Nephropathy

Minimal  
Minimal  
Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 93

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912873

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow	Liver	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Spleen	Thymus	

---

**OBSERVATIONS**

Eye		Inflammation	Chronic Active, Marked
[ Inflammation TGLS = 1-15 ]			
Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 94

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912874

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization

Minimal  
Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 95

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912875

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mandibular

Kidney  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

---

**OBSERVATIONS**

Heart

Cardiomyopathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 96

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912876

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Thymus

Lung

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney  
Spleen

Cortex

Cardiomyopathy  
Mineralization  
Depletion Lymphoid

Minimal  
Minimal  
Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 97

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1100 PPM

DISP: Terminal Sacrifice

HISTO: 912877

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow	Liver	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Thymus		

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
Ovary		Cyst	
[ Cyst TGLS = 1-7 ]			
Spleen		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

---

ANIMAL ID: 98

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1100 PPM

DISP: Terminal Sacrifice

HISTO: 912878

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

Lymph Node, Mandibular

---

**OBSERVATIONS**

Heart  
Kidney

Cortex

Cardiomyopathy  
Mineralization  
Nephropathy

Minimal  
Minimal  
Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 99

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912879

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow	Lung	Lymph Node, Mandibular	Lymph Node, Mesenteric
Spleen	Thymus		

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	
Note: TGL 2 NODULE NOT SEEN ON MICRO EXAM			
Ovary		Cyst	
[ Cyst TGLS = 1-7 ]			

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

---

**ANIMAL ID:** 100

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912880

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Lymph Node, Mandibular

Kidney  
Lymph Node, Mesenteric

Liver  
Spleen

Lung  
Thymus

---

**OBSERVATIONS**

Heart

Cardiomyopathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 101

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912861

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
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	Uterus

**MISSING**

Mammary Gland

**OBSERVATIONS**

Heart	Cardiomyopathy	Moderate
Kidney	Nephropathy	Moderate
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 102

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912862

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
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	Marked
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane

**CAS Number:** 51-79-6

**Date Report Requested:** 10/16/2014

**Time Report Requested:** 12:01:25

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

**ANIMAL ID:** 103

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912863

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Pituitary Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Heart	Cardiomyopathy	Marked
Kidney	Nephropathy	Minimal
Liver	Clear Cell Focus	
Spleen	Depletion Lymphoid	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 104

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912864

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex

Adrenal 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

Pituitary Gland

Salivary Glands

Skin

Stomach, Forestomach

Stomach, Glandular

Thymus

Trachea

Urinary Bladder

Uterus

**OBSERVATIONS**

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Minimal

Liver

Clear Cell Focus

Spleen

Depletion Lymphoid

Minimal

Thyroid Gland

Ultimobranchial Cyst

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 105

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912865

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Pituitary Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

**OBSERVATIONS**

Heart		Cardiomyopathy	Moderate
Kidney	Cortex	Mineralization	Minimal
Liver		Clear Cell Focus	
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 106

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Adrenal 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

Pancreas

Parathyroid Gland

Pituitary Gland

Salivary Glands

Skin

Stomach, Forestomach

Stomach, Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Heart

Cardiomyopathy

Moderate

Kidney

Nephropathy

Minimal

Liver

Clear Cell Focus

Ovary

Cyst

[ Cyst TGLS = 1-7 ]

Spleen

Depletion Lymphoid

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 107

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal 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	Liver	Lung
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	Marked
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 108

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 86

**DOSE:** 3300 PPM

**DISP:** Accidentally Killed

**HISTO:** 912868

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, 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**

Bone Marrow		Depletion Cellular	Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ]		
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 109

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912869

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	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	Marked
Kidney	Cortex	Mineralization	Minimal
Liver		Clear Cell Focus	
Lymph Node, Mandibular		Depletion Lymphoid	Mild
Lymph Node, Mesenteric		Depletion Lymphoid	Mild
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 110

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912870

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Pituitary Gland	Salivary Glands
Skin	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

**OBSERVATIONS**

Heart	Cardiomyopathy	Marked
Kidney	Nephropathy	Minimal
Liver	Clear Cell Focus	
	Infarct	Moderate
[ Infarct TGLS = 1-6 ]		
Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 111

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: 912851

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

**OBSERVATIONS**

Bone Marrow		Depletion Cellular	Minimal
Heart		Cardiomyopathy	Moderate
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Moderate
Lymph Node, Mandibular		Depletion Lymphoid	Mild
Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 112

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912852

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

**OBSERVATIONS**

Bone Marrow		Depletion Cellular	Mild
Heart		Cardiomyopathy	Marked
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node, Mandibular		Depletion Lymphoid	Mild
Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
Spleen		Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 113

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912853

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal 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	Liver	Lung
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	Moderate
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Moderate
Lymph Node, Mandibular		Depletion Lymphoid	Moderate
Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 114

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: 912854

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Urinary Bladder
Uterus			

**OBSERVATIONS**

Bone Marrow		Depletion Cellular	Mild
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Mild
Liver		Clear Cell Focus	
Lymph Node, Mandibular		Depletion Lymphoid	Mild
Spleen		Depletion Lymphoid	Mild
Trachea	Glands	Ectasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 115

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: 912855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mandibular
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Bone Marrow		Depletion Cellular	Minimal
Heart		Cardiomyopathy	Moderate
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Mild
Lymph Node, Mesenteric		Depletion Lymphoid	Mild
Spleen		Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 116

TRT#: 12

SEX: Female

DAY ON TEST: 86

DOSE: 10000 PPM

DISP: Accidentally Killed

HISTO: 912856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Bone Marrow		Depletion Cellular	Mild
Heart		Cardiomyopathy	Marked
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Clear Cell Focus	
Lymph Node, Mandibular		Depletion Lymphoid	Mild
Lymph Node, Mesenteric		Depletion Lymphoid	Mild
Spleen		Depletion Lymphoid	Moderate
Stomach, Forestomach		Hyperplasia	Squamous, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 117

TRT#: 12

SEX: Female

DAY ON TEST: 86

DOSE: 10000 PPM

DISP: Accidentally Killed

HISTO: 912857

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Lung	Lymph Node, 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**

Bone Marrow		Depletion Cellular	Moderate
Heart		Cardiomyopathy	Marked
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Liver		Clear Cell Focus	
Lymph Node, Mandibular		Depletion Lymphoid	Mild
Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 118

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 86

**DOSE:** 10000 PPM

**DISP:** Accidentally Killed

**HISTO:** 912858

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Bone Marrow		Depletion Cellular	Mild
Heart		Cardiomyopathy	Moderate
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Moderate
Lymph Node, Mandibular		Depletion Lymphoid	Mild
Pancreas	Acinus	Atrophy	Minimal
Spleen		Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 119

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912859

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mandibular
Lymph Node, Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach, Forestomach	Stomach, Glandular	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

**OBSERVATIONS**

Bone Marrow	Depletion Cellular	Minimal
Heart	Cardiomyopathy	Marked
Kidney	Nephropathy	Minimal
Ovary	Cyst	
Spleen	Depletion Lymphoid	Moderate
Thymus	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 10/16/2014

Time Report Requested: 12:01:25

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 120

TRT#: 12

SEX: Female

DAY ON TEST: 86

DOSE: 10000 PPM

DISP: Accidentally Killed

HISTO: 912860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone	Brain
Clitoral Gland	Esophagus	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node, Mesenteric
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Bone Marrow		Depletion Cellular	Mild
Heart		Cardiomyopathy	Marked
Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node, Mandibular		Depletion Lymphoid	Moderate
Spleen		Depletion Lymphoid	Moderate
Stomach, Forestomach		Hyperplasia	Squamous, Minimal

PRIMARY CAUSE OF DEATH

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\*\* END OF REPORT \*\*

\* PROTOCOL REQUIRED TISSUE