

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

<b>C Number:</b>	C00602C
<b>Lock Date:</b>	01/12/1993
<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: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 271

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912901

**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	Mild
* Kidney	Nephropathy	Minimal
* Liver		

Note: TGL 2 FOCI NOT SEEN ON MICRO EXAM.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 272

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912902

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Epididymis		Aspermia	Moderate
		Dilatation	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Nose	Glands	Hyperplasia	Minimal
Prostate		Inflammation	Acute, Minimal
Testes	Seminif Tub	Degeneration	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 273

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912903

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland	Preputial Gland
* Salivary Glands	Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	Tissue NOS	* Trachea
* Urinary Bladder			

**MISSING**

* Mammary Gland	* Stomach, Forestomach
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**AUTO PRECLUDES DIAG.**

\* Thymus

**OBSERVATIONS**

Epididymis		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Nose		Foreign Body	Mild
		Inflammation	Acute, Minimal
* Pancreas	Acinus	Atrophy	Minimal
Prostate		Inflammation	Chronic, Minimal
Testes	Seminif Tub	Degeneration	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 274

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912904

**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:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

**ANIMAL ID:** 275

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912905

**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	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Heart	Cardiomyopathy	Mild
* Kidney	Nephropathy	Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 276

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912906

**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	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Nose	Glands	Inflammation	Acute, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 277

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912907

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lym Node Mesen		

Note: TGL 1 ENLARGED MESENTERIC LN NOT SEEN ON MICRO EXAM

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 278

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912908

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Pancreas  
\* Salivary Glands  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Adrenal Medulla  
Epididymis  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Parathyroid Gland  
Seminal Vesicle  
\* Stomach, Glandular  
\* Trachea

\* Bone  
\* Esophagus  
\* Intestine Small, Duodenum  
\* Liver  
\* Mammary Gland  
\* Pituitary Gland  
\* Skin  
Testes  
\* Urinary Bladder

\* Bone Marrow  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
Prostate  
\* Spleen  
\* Thymus

**OBSERVATIONS**

\* Heart  
\* Kidney  
Preputial Gland

Cardiomyopathy  
Nephropathy  
Inflammation

Minimal  
Minimal  
Chronic, Minimal

[ Inflammation TGLS = 1-10 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 279

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912909

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Pituitary Gland
- Seminal Vesicle
- \* Stomach, Glandular
- \* Trachea

- \* Adrenal Medulla
- Epididymis
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- Preputial Gland
- \* Skin
- Testes
- \* Urinary Bladder

- \* Bone
- \* Esophagus
- \* Intestine Small, Duodenum
- \* Liver
- \* Pancreas
- Prostate
- \* Spleen
- \* Thymus

- \* Bone Marrow
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Parathyroid Gland
- \* Salivary Glands
- \* Stomach, Forestomach
- \* Thyroid Gland

**MISSING**

- \* Mammary Gland

**OBSERVATIONS**

- |          |                |         |
|----------|----------------|---------|
| * Heart  | Cardiomyopathy | Minimal |
| * Kidney | Nephropathy    | Minimal |
| * Nose   | Foreign Body   | Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 280

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912910

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

**MISSING**

- \* Mammary Gland

**OBSERVATIONS**

- |          |                            |         |
|----------|----------------------------|---------|
| * Heart  | Cardiomyopathy             | Minimal |
| * Kidney | Nephropathy                | Mild    |
| * Liver  | Hepatodiaphragmatic Nodule |         |

[ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

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**ANIMAL ID:** 281

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912951

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

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**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

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**ANIMAL ID:** 282

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912952

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

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**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

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**ANIMAL ID:** 283

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912953

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

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**ANIMAL ID:** 284

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912954

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Mild

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

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**ANIMAL ID:** 285

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912955

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

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**ANIMAL ID:** 286

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912956

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 287

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 110 PPM

DISP: Terminal Sacrifice

HISTO: 912957

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

**OBSERVATIONS**

Eye

Inflammation

Chronic Active, Marked

[ Inflammation TGLS = 1-16+16.1 ]

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Mild

\* Liver

Bile Duct

Hyperplasia

Minimal

[ Hyperplasia TGLS = 2-6.01 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 288

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912958

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

\* Urinary Bladder

Concretion

Mild

[ Concretion TGLS = 1-9 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 289

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912959

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 290

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912960

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

\* Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 291

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912941

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 292

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912942

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 293

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912943

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 294

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912944

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

\* Urinary Bladder

Concretion

Moderate

[ Concretion TGLS = 1-9 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 295

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912945

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 296

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912946

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 297

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912947

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Mild

\* Kidney

Nephropathy

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 298

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912948

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Mild

\* Kidney

Nephropathy

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 299

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912949

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Mild

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 300

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912950

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 301

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912931

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

\* Liver

Hepatodiaphragmatic Nodule

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 302

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912932

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 303

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912933

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 304

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912934

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 305

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912935

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 306

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912936

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 307

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912937

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 308

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912938

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 309

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912939

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 310

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912940

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Heart

Cardiomyopathy

Minimal

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 311

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912921

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
-----------------	---------------------

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Moderate
* Lymph Node, Mandibular	Depletion Lymphoid	Mild
* Lymph Node, Mesenteric	Depletion Lymphoid	Mild
* Spleen	Depletion Lymphoid	Mild
* Testes	Seminif Tub Degeneration	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 312

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912922

**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	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Mild
* Lung	Hemorrhage	Mild
[ Hemorrhage TGLS = 1-3.01 ]		
* Spleen	Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 313

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912923

**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	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 314

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912924

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

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Mild
* Lymph Node, Mesenteric	Depletion Lymphoid	Mild
* Spleen	Depletion Lymphoid	Mild
* Thyroid Gland	Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 315

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912925

**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: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 316

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912926

**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: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 317

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912927

**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
* 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	Minimal
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 318

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912928

**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: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 319

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912929

**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	* 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
* Lymph Node, Mandibular	Depletion Lymphoid	Mild
* Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 320

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912930

**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	Minimal
* Spleen	Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 321

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 37

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 912911

**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	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**OBSERVATIONS**

* Bone Marrow		Depletion Cellular	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver			
Note: TGL 2 FOCI NOT SEEN AT MICRO EXAM.			
* Lymph Node, Mandibular		Depletion Lymphoid	Mild
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Depletion Lymphoid	Mild
* Thymus		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 322

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912912

**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	Clear Cell Focus	
	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: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 323

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912913

**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, 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     | Moderate |
| * Kidney                 | Nephropathy        | Mild     |
| * Liver                  | Fatty Change       | Mild     |
| * Lymph Node, Mandibular | Depletion Lymphoid | Moderate |
| * Spleen                 | Depletion Lymphoid | Moderate |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 324

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: 912914

**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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**OBSERVATIONS**

* Heart	Cardiomyopathy	Moderate
* Kidney	Nephropathy	Minimal
* Liver	Fatty Change	Mild
* Lymph Node, Mandibular	Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric	Depletion Lymphoid	Mild
* Preputial Gland	Inflammation	Chronic, Minimal
* Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 325

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: 912915

**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	Moderate
* Kidney	Nephropathy	Mild
* Liver	Fatty Change	Mild
* Lymph Node, Mandibular	Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric	Depletion Lymphoid	Mild
* Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 326

TRT#: 11

SEX: Male

DAY ON TEST: 17

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO: 912916

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Bone Marrow	Depletion Cellular	Mild
* Kidney	Nephropathy	Minimal
* Lymph Node, Mandibular	Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric	Depletion Lymphoid	Mild
* Spleen	Depletion Lymphoid	Minimal
* Urinary Bladder	Concretion	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 327

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912917

**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	Moderate
* Kidney	Nephropathy	Minimal
* Liver	Fatty Change	Mild
* Lymph Node, Mandibular	Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric	Depletion Lymphoid	Mild
* Spleen	Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 328

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912918

**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	Mild
* Kidney	Nephropathy	Moderate
* Liver	Fatty Change	Minimal
* Lymph Node, Mandibular	Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric	Depletion Lymphoid	Mild
* Spleen	Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 329

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912919

**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, 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	Marked
* Kidney	Nephropathy	Mild
* Liver	Fatty Change	Minimal
* Lymph Node, Mandibular	Depletion Lymphoid	Moderate
* Prostate	Inflammation	Acute, Mild
* Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 330

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912920

**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	Mild
* Spleen	Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 331

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912961

**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	* 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
* Liver		Hepatodiaphragmatic Nodule	

[ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 332

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912962

**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      | * 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 |
|   |        | Nephropathy                | Minimal |
| * Liver                                   |        | Hepatodiaphragmatic Nodule |         |
| [ Hepatodiaphragmatic Nodule TGLS = 1-6 ] |        |                            |         |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 333

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912963

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus

- \* Bone
- \* Esophagus
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

- \* Bone Marrow
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 334

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912964

**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	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Kidney	Cortex	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 335

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912965

**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	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Kidney	Cortex	Mineralization	Minimal
* Stomach, Glandular		Granuloma	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 336

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912966

**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	Nephropathy	Minimal
----------	-------------	---------

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 337

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912967

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- \* Adrenal Cortex
- \* Brain
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Salivary Glands
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Clitoral Gland
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Thymus
- \* Uterus

- \* Bone
- \* Esophagus
- \* Intestine Small, Duodenum
- \* Liver
- \* Mammary Gland
- \* Parathyroid Gland
- \* Spleen
- \* Thyroid Gland

- \* Bone Marrow
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Stomach, Forestomach
- \* Trachea

**OBSERVATIONS**

- |          |        |                |         |
|----------|--------|----------------|---------|
| * Heart  |        | Cardiomyopathy | Minimal |
| * Kidney | Cortex | Mineralization | Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 338

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912968

**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      | * 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**

- |            |  |                            |                  |
|------------|--|----------------------------|------------------|
| * Kidney   | Cortex                                       | Mineralization             | Minimal          |
| * Liver    |  | Hepatodiaphragmatic Nodule |                  |
|            | [ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ] |                            |                  |
| * Pancreas |  | Inflammation               | Chronic, Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 339

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 912969

**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	* 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
		Nephropathy	Minimal
* Nose	Glands	Inflammation	Acute, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 340

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912970

**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      | * 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 |
| * Liver                                      |        | Hepatodiaphragmatic Nodule |         |
| [ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ] |        |                            |         |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

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**ANIMAL ID:** 341

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913011

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 342

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913012

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

---

**ANIMAL ID:** 343

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913013

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 344

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913014

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 345

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913015

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Kidney

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 346

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913016

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 347

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913017

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 110 PPM

DISP: Terminal Sacrifice

HISTO: 913018

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

**OBSERVATIONS**

Eye

Inflammation

Chronic Active, Marked

[ Inflammation TGLS = 1-15 ]

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

\* Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 3-6.01 ]

\* Ovary

Cyst

[ Cyst TGLS = 2-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 349

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913019

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 350

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 110 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913020

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 351

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913001

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

\* Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-6.01 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 352

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913002

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow  
\* Pituitary Gland

\* Liver  
\* Spleen

\* Lymph Node, Mandibular  
\* Thymus

\* Lymph Node, Mesenteric

---

**OBSERVATIONS**

\* Kidney  
\* Ovary  
[ Ovotestis TGLS = 1-7 ]

Cortex

Mineralization  
Ovotestis

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

---

ANIMAL ID: 353

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 330 PPM

DISP: Terminal Sacrifice

HISTO: 913003

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

\* Ovary

Cyst

[ Cyst TGLS = 1-7 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 354

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913004

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 355

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913005

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 356

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913006

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 357

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913007

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Kidney

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 358

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913008

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Mild

Nephropathy

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 359

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913009

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Kidney

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 360

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 330 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913010

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 361

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912991

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 362

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912992

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

\* Lung

Inflammation

Chronic, Minimal

[ Inflammation TGLS = 1-2+2.01+3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

---

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1100 PPM

DISP: Terminal Sacrifice

HISTO: 912993

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

\* Ovary

Nephropathy

Minimal

[ Cyst TGLS = 1-7 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 364

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912994

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 1100 PPM

DISP: Terminal Sacrifice

HISTO: 912995

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

**OBSERVATIONS**

\* Clitoral Gland

Cyst

[ Cyst TGLS = 1-10 ]

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

\* Lung

Inflammation

Chronic, Mild

[ Inflammation TGLS = 2-2+2.01 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 366

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912996

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 367

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912997

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 368

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912998

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 00602-03

**Test Type:** 90-DAY

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 00:59:12

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

**Lab:** TSI MASON

---

**ANIMAL ID:** 369

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912999

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

\* Ovary

Cyst

[ Cyst TGLS = 1-7 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

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**ANIMAL ID:** 370

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 1100 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 913000

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Bone Marrow

\* Liver

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Cortex

Mineralization

Minimal

Nephropathy

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 371

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912981

**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	Minimal
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Mild
* Spleen		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 372

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912982

**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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**OBSERVATIONS**

* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
* Lymph Node, Mandibular		Depletion Lymphoid	Mild
* Lymph Node, Mesenteric		Depletion Lymphoid	Mild
* Pituitary Gland	Pars Distalis	Cyst	
* Spleen		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 373

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912983

**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	Minimal
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Moderate
* Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 374

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912984

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	Minimal
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
Lymph Node	Pancreatic	Hyperplasia	Lymphoid, Moderate
[ Hyperplasia TGLS = 1-9 ]			
* Lymph Node, Mandibular		Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric		Depletion Lymphoid	Mild
Mesentery		Foreign Body	Mild
		Granuloma	Moderate
[ Granuloma TGLS = 2-15 ]			
* Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 375

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912985

**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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

**OBSERVATIONS**

* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Mild
		Cyst	
* Ovary			
[ Cyst TGLS = 1-7 ]			
* Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 376

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912986

**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, 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	Minimal
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Mild
* Lymph Node, Mandibular		Depletion Lymphoid	Mild
* Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 377

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912987

**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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Moderate
* Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 378

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912988

**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	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**OBSERVATIONS**

* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Mild
* Spleen		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 379

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 3300 PPM

DISP: Terminal Sacrifice

HISTO: 912989

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Stomach, Glandular  
\* Urinary Bladder

\* Adrenal Medulla  
\* Clitoral Gland  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skin  
\* Thymus  
\* Uterus

\* Bone  
\* Esophagus  
\* Intestine Small, Duodenum  
\* Liver  
\* Mammary Gland  
\* Parathyroid Gland  
\* Spleen  
\* Thyroid Gland

\* Bone Marrow  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Nose  
\* Pituitary Gland  
\* Stomach, Forestomach  
\* Trachea

**OBSERVATIONS**

* Heart		Cardiomyopathy	Minimal
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 380

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 912990

**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     | Minimal |
| * Kidney | Cortex | Mineralization     | Minimal |
|          |        | Nephropathy        | Minimal |
| * Spleen |        | Depletion Lymphoid | Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 381

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 36

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 912971

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Bone Marrow		Depletion Cellular	Mild
* Kidney	Cortex	Mineralization	Minimal
* Lymph Node, Mandibular		Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
* Spleen		Depletion Lymphoid	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 382

TRT#: 12

SEX: Female

DAY ON TEST: 36

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO: 912972

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* 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
* Kidney	Nephropathy	Minimal
* Liver		
Note: TGL 2 FOCI NOT SEEN ON MICRO EXAM.		
* 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: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 383

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 16

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 912973

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	Ear	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Mammary Gland	* 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
* Kidney	Cortex	Mineralization	Minimal
* Lymph Node, Mandibular		Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
* Spleen		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 384

TRT#: 12

SEX: Female

DAY ON TEST: 16

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO: 912974

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* 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
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLS = 2-6.01 ]		
* 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: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 385

TRT#: 12

SEX: Female

DAY ON TEST: 35

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO: 912975

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* 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	Moderate
* Kidney	Cortex	Mineralization	Minimal
* Liver			
Note: TGL 2 FOCI NOT SEEN ON MICRO EXAM.			
* Lymph Node, Mandibular		Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
* Spleen		Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 386

TRT#: 12

SEX: Female

DAY ON TEST: 16

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO: 912976

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* 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	Moderate
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
* Lymph Node, Mandibular		Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
* Spleen		Depletion Lymphoid	Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 387

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 29

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 912977

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

* Bone Marrow	Depletion Cellular	Moderate
* Lymph Node, Mandibular	Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric	Depletion Lymphoid	Moderate
* Spleen	Depletion Lymphoid	Mild
* Stomach, Forestomach	Hyperplasia	Squamous, Mild
* Thymus	Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 388

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 16

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 912978

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* 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	Moderate
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
* Lymph Node, Mandibular		Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
* Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 389

TRT#: 12

SEX: Female

DAY ON TEST: 16

DOSE: 10000 PPM

DISP: Moribund Sacrifice

HISTO: 912979

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* 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	Moderate
* Kidney	Cortex	Mineralization	Minimal
		Nephropathy	Minimal
* Lymph Node, Mandibular		Depletion Lymphoid	Moderate
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
* Spleen		Depletion Lymphoid	Mild

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 00602-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/22/2014

Time Report Requested: 00:59:12

First Dose M/F: NA / NA

Lab: TSI MASON

**ANIMAL ID:** 390

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 36

**DOSE:** 10000 PPM

**DISP:** Moribund Sacrifice

**HISTO:** 912980

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* 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
* Kidney	Cortex	Mineralization	Minimal
* Liver			
Note: TGL 2 FOCI NOT SEEN ON MICRO EXAM.			
* Lymph Node, Mandibular		Depletion Lymphoid	Minimal
* Lymph Node, Mesenteric		Depletion Lymphoid	Mild
* Spleen		Depletion Lymphoid	Moderate

PRIMARY CAUSE OF DEATH

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

\* PROTOCOL REQUIRED TISSUE