

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:26  
**First Dose M/F:** NA / NA  
**Lab:** MBA

<b>C Number:</b>	C92013
<b>Lock Date:</b>	01/12/1995
<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: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:26

First Dose M/F: NA / NA

Lab: MBA

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<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-1

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Peripheral Nerve
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
* Preputial Gland		Cyst	Mild
* Stom Gland			

Note: TGL 1-NCL

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:26

First Dose M/F: NA / NA

Lab: MBA

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<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-2

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Peripheral Nerve
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

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**MISSING**

* Mammary Gland	* Parathyroid Gland	* Thyroid Gland
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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:26

First Dose M/F: NA / NA

Lab: MBA

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-3

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

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**MISSING**

* Intestine Large, Rectum	* Mammary Gland	* Parathyroid Gland	* Thyroid Gland
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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:26

First Dose M/F: NA / NA

Lab: MBA

<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-4

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Gallbladder             | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve        | * Pituitary Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skeletal Muscle           | * Skin                   | * Spinal Cord              |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

**MISSING**

- \* Mammary Gland

**OBSERVATIONS**

- |                   |            |                           |         |
|-------------------|------------|---------------------------|---------|
| * Liver           | Periportal | Vacuolization Cytoplasmic | Mild    |
| * Preputial Gland |            | Cyst                      | Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:26

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 92

DOSE: UNTREAT CONTROL

DISP: Terminal Sacrifice

HISTO: MB205G-5

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Peripheral Nerve
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
* Preputial Gland		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:26

First Dose M/F: NA / NA

Lab: MBA

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<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-6

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

\* Mammary Gland

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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
* Preputial Gland		Cyst	Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:26

First Dose M/F: NA / NA

Lab: MBA

<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-7

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                     |
| * Bone Marrow             | * Brain                     | * Epididymis             | * Esophagus                |
| * Gallbladder             | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon   |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic      | * Kidney                    | * Lung                   | * Lymph Node, Mandibular   |
| * Lymph Node, Mesenteric  | * Nose                      | * Pancreas               | * Parathyroid Gland        |
| * Peripheral Nerve        | * Pituitary Gland           | * Prostate               | * Salivary Glands          |
| * Seminal Vesicle         | * Skeletal Muscle           | * Skin                   | * Spinal Cord              |
| * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     | * Testes                   |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder          |

**MISSING**

- \* Mammary Gland

**OBSERVATIONS**

- |                   |            |                           |         |
|-------------------|------------|---------------------------|---------|
| * Liver           | Periportal | Vacuolization Cytoplasmic | Minimal |
| * Preputial Gland |            | Cyst                      | Mild    |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:26

First Dose M/F: NA / NA

Lab: MBA

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<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-8

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**MISSING**

* Gallbladder	* Mammary Gland
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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
* Preputial Gland		Cyst	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:26  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-9

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

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**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Hemorrhage	Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

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**ANIMAL ID:** 11

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-11

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**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

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**ANIMAL ID:** 12

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-12

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**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

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**ANIMAL ID:** 13

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-13

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**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 14

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-14

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**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

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**ANIMAL ID:** 15

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-15

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**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 16

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-16

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**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 17

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-17

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**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 18

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-18

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**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 19

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-19

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 20

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-20

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**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 21

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-21

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 22

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-22

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 23

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-23

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Moderate

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 24

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-24

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 25

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-25

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

<b>ANIMAL ID:</b> 26	<b>TRT#:</b> 3	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 1250 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> G-26
<b>OBSERVATIONS</b>			
Liver	Periportal	Vacuolization Cytoplasmic	Mild
<b>PRIMARY CAUSE OF DEATH</b>			
-			

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 27

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-27

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 28

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-28

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 29

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-29

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:26

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

**Lab:** MBA

---

**ANIMAL ID:** 30

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-30

---

**OBSERVATIONS**

Liver  
\* Preputial Gland  
[ Cyst TGLS = 1-8A ]

Periportal

Vacuolization Cytoplasmic  
Cyst

Mild  
Moderate

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 31

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-31

---

**OBSERVATIONS**

Liver

Periportal

Infiltration Cellular

Vacuolization Cytoplasmic

Mixed Cell, Minimal

Moderate

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 32

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-32

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Moderate

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 33

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-33

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 34

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-34

---

**OBSERVATIONS**

Liver

Periportal

Infiltration Cellular

Vacuolization Cytoplasmic

Mixed Cell, Minimal

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 35

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-35

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 36

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-36

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 37

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-37

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 38

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-38

---

**OBSERVATIONS**

Liver

Periportal

Infiltration Cellular

Vacuolization Cytoplasmic

Mixed Cell, Minimal

Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 39

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-39

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 40

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-40

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 41

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-41

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 42

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-42

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 43

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-43

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Moderate

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 44

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-44

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 45

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-45

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Moderate

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 46

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-46

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 47

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-47

---

**OBSERVATIONS**

\* Liver

Centrilobular

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 48

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-48

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 49

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-49

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 50

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-50

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 51

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: MB205G-51

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Liver	Centrilobular	Vacuolization Cytoplasmic	Minimal
* Preputial Gland		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 53

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: MB205G-53

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
* Preputial Gland		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 54

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: MB205G-54

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Thymus
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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Hemorrhage	Mild
* Preputial Gland		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 55

TRT#: 6

SEX: Male

DAY ON TEST: 27

DOSE: 10000 PPM

DISP: Natural Death

HISTO: MB205G-55

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Kidney
- \* Lymph Node, Mesenteric
- \* Salivary Glands
- \* Spinal Cord
- \* Testes
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Liver
- \* Pancreas
- \* Seminal Vesicle
- \* Spleen
- \* Thymus

- \* Blood Vessel
- \* Epididymis
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Parathyroid Gland
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Thyroid Gland

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Islets, Pancreatic
- \* Lymph Node, Mandibular
- \* Peripheral Nerve
- \* Skin
- \* Stomach, Glandular
- \* Trachea

MISSING

- \* Intestine Small, Jejunum
- \* Prostate

- \* Mammary Gland

- \* Nose

- \* Pituitary Gland

OBSERVATIONS

- \* Lung
- Note: TGL 1-NCL
- \* Preputial Gland

Cyst

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 56

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: MB205G-56

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Peripheral Nerve  
\* Salivary Glands  
\* Spinal Cord  
\* Testes  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Nose  
\* Pituitary Gland  
\* Seminal Vesicle  
\* Spleen  
\* Thymus

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Preputial Gland  
\* Skeletal Muscle  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Parathyroid Gland  
\* Prostate  
\* Skin  
\* Stomach, Glandular  
\* Trachea

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

\* Liver                      Periportal                      Vacuolization Cytoplasmic                      Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 57

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: MB205G-57

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Skeletal Muscle  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Nose  
\* Prostate  
\* Skin  
\* Stomach, Glandular  
\* Trachea

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Salivary Glands  
\* Spinal Cord  
\* Testes  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Peripheral Nerve  
\* Seminal Vesicle  
\* Spleen  
\* Thymus

**MISSING**

\* Mammary Gland

\* Parathyroid Gland

**OBSERVATIONS**

\* Liver  
\* Preputial Gland

Periportal

Vacuolization Cytoplasmic  
Cyst

Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 58

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: MB205G-58

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Lymph Node, Mesenteric  
\* Pituitary Gland  
\* Skeletal Muscle  
\* Stomach, Forestomach  
\* Thyroid Gland

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Nose  
\* Prostate  
\* Skin  
\* Stomach, Glandular  
\* Trachea

\* Blood Vessel  
\* Epididymis  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lung  
\* Pancreas  
\* Salivary Glands  
\* Spinal Cord  
\* Testes  
\* Urinary Bladder

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mandibular  
\* Peripheral Nerve  
\* Seminal Vesicle  
\* Spleen  
\* Thymus

**MISSING**

\* Mammary Gland

\* Parathyroid Gland

**OBSERVATIONS**

\* Liver  
\* Preputial Gland

Periportal

Vacuolization Cytoplasmic  
Cyst

Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 59

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: MB205G-59

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex

\* Adrenal Medulla

\* Blood Vessel

\* Bone

\* Bone Marrow

\* Brain

\* Epididymis

\* Esophagus

\* Heart

\* Intestine Large, Cecum

\* Intestine Large, Colon

\* Intestine Large, Rectum

\* Intestine Small, Duodenum

\* Intestine Small, Ileum

\* Intestine Small, Jejunum

\* Islets, Pancreatic

\* Kidney

\* Lung

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Nose

\* Pancreas

\* Peripheral Nerve

\* Pituitary Gland

\* Prostate

\* Salivary Glands

\* Seminal Vesicle

\* Skeletal Muscle

\* Skin

\* Spinal Cord

\* Spleen

\* Stomach, Forestomach

\* Stomach, Glandular

\* Testes

\* Thymus

\* Thyroid Gland

\* Trachea

\* Urinary Bladder

**MISSING**

\* Gallbladder

\* Mammary Gland

\* Parathyroid Gland

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Minimal

\* Preputial Gland

Cyst

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 60

TRT#: 6

SEX: Male

DAY ON TEST: 92

DOSE: 10000 PPM

DISP: Terminal Sacrifice

HISTO: MB205G-60

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Minimal
* Preputial Gland		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

<b>ANIMAL ID:</b> 61	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-61

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Peripheral Nerve	* Salivary Glands	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Pituitary Gland

**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Minimal
* Lung	Perivascular	Infiltration Cellular	Mixed Cell, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 62	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-62

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Peripheral Nerve	* Pituitary Gland	* Salivary Glands
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

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**MISSING**

\* Parathyroid Gland

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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

**ANIMAL ID:** 63

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** UNTREAT CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-63

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex

\* Adrenal Medulla

\* Blood Vessel

\* Bone

\* Bone Marrow

\* Brain

\* Esophagus

\* Gallbladder

\* Heart

\* Intestine Large, Cecum

\* Intestine Large, Colon

\* Intestine Large, Rectum

\* Intestine Small, Duodenum

\* Intestine Small, Ileum

\* Intestine Small, Jejunum

\* Islets, Pancreatic

\* Kidney

\* Liver

\* Lung

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Mammary Gland

\* Nose

\* Ovary

\* Pancreas

\* Parathyroid Gland

\* Peripheral Nerve

\* Pituitary Gland

\* Salivary Glands

\* Skeletal Muscle

\* Skin

\* Spinal Cord

\* Spleen

\* Stomach, Forestomach

\* Stomach, Glandular

\* Thymus

\* Thyroid Gland

\* Trachea

\* Urinary Bladder

\* Uterus

**MISSING**

\* Clitoral Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 64	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-64

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Peripheral Nerve	* Pituitary Gland	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

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**MISSING**

\* Parathyroid Gland

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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Mild
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 65	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-65

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

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**MISSING**

* Clitoral Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Heart	Valve	Pigmentation	Minimal
* Liver	Periportal	Vacuolization Cytoplasmic	Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 66

TRT#: 7

SEX: Female

DAY ON TEST: 92

DOSE: UNTREAT CONTROL

DISP: Terminal Sacrifice

HISTO: MB205G-66

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Bone Marrow  
\* Gallbladder  
\* Intestine Large, Rectum  
\* Islets, Pancreatic  
\* Mammary Gland  
\* Peripheral Nerve  
\* Skin  
\* Stomach, Glandular  
\* Urinary Bladder

\* Adrenal Medulla  
\* Brain  
\* Heart  
\* Intestine Small, Duodenum  
\* Kidney  
\* Nose  
\* Pituitary Gland  
\* Spinal Cord  
\* Thymus  
\* Uterus

\* Blood Vessel  
\* Clitoral Gland  
\* Intestine Large, Cecum  
\* Intestine Small, Ileum  
\* Lymph Node, Mandibular  
\* Ovary  
\* Salivary Glands  
\* Spleen  
\* Thyroid Gland

\* Bone  
\* Esophagus  
\* Intestine Large, Colon  
\* Intestine Small, Jejunum  
\* Lymph Node, Mesenteric  
\* Pancreas  
\* Skeletal Muscle  
\* Stomach, Forestomach  
\* Trachea

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

\* Liver                      Periportal                      Vacuolization Cytoplasmic  
\* Lung                        Perivascular                    Infiltration Cellular

Minimal  
Mixed Cell, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 67

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** UNTREAT CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-67

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

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<b>ANIMAL ID:</b> 68	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> UNTREAT CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB205G-68

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Peripheral Nerve	* Pituitary Gland	* Salivary Glands
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

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**MISSING**

\* Parathyroid Gland

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**OBSERVATIONS**

* Clitoral Gland	Cyst	Minimal
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PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 69

TRT#: 7

SEX: Female

DAY ON TEST: 92

DOSE: UNTREAT CONTROL

DISP: Terminal Sacrifice

HISTO: MB205G-69

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Bone Marrow
- \* Gallbladder
- \* Intestine Large, Rectum
- \* Islets, Pancreatic
- \* Lymph Node, Mesenteric
- \* Pancreas
- \* Skin
- \* Stomach, Glandular
- \* Urinary Bladder

- \* Adrenal Medulla
- \* Brain
- \* Heart
- \* Intestine Small, Duodenum
- \* Kidney
- \* Mammary Gland
- \* Peripheral Nerve
- \* Spinal Cord
- \* Thymus
- \* Uterus

- \* Blood Vessel
- \* Clitoral Gland
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lung
- \* Nose
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland

- \* Bone
- \* Esophagus
- \* Intestine Large, Colon
- \* Intestine Small, Jejunum
- \* Lymph Node, Mandibular
- \* Ovary
- \* Skeletal Muscle
- \* Stomach, Forestomach
- \* Trachea

MISSING

- \* Parathyroid Gland

OBSERVATIONS

- \* Liver
- \* Salivary Glands

Periportal

Vacuolization Cytoplasmic  
Infiltration Cellular

Minimal  
Lymphocyte, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 70

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** UNTREAT CONTROL

**DISP:** Accidentally Killed

**HISTO:** MB205G-70

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Peripheral Nerve	* Pituitary Gland
* Salivary Glands	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Liver	Infiltration Cellular	Mixed Cell, Minimal
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**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 71

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-71

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 72

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-72

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 74

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Accidentally Killed

**HISTO:** G-74

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 75

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-75

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 76

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-76

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 77

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-77

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 78

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-78

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

<b>ANIMAL ID:</b> 79	<b>TRT#:</b> 8 <b>DOSE:</b> 625 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> G-79
<b>OBSERVATIONS</b>			
Liver	Periportal	Vacuolization Cytoplasmic	Mild
<b>PRIMARY CAUSE OF DEATH</b>	-		

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 80

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 625 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-80

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 81

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-81

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 83

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Accidentally Killed

**HISTO:** G-83

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 85

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-85

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 86

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-86

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 88

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-88

---

**OBSERVATIONS**

Liver

Infiltration Cellular

Mixed Cell, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 89

**TRT#:** 9

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1250 PPM

**DISP:** Terminal Sacrifice

**HISTO:** G-89

---

**OBSERVATIONS**

Liver

Periportal

Vacuolization Cytoplasmic

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 91

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-91

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 92

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-92

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 93

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-93

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 94

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-94

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 95

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-95

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 96

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-96

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 97

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-97

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 98

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Accidentally Killed

**HISTO:** MB205G-98

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Liver

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

---

**ANIMAL ID:** 99

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-99

---

**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

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**ANIMAL ID:** 100

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-100

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**OBSERVATIONS**

\* Liver

Periportal

Vacuolization Cytoplasmic

Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 101

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: MB205G-101

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Salivary Glands	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Pituitary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

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**ANIMAL ID:** 102

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-102

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 103

TRT#: 11

SEX: Female

DAY ON TEST: 92

DOSE: 5000 PPM

DISP: Terminal Sacrifice

HISTO: MB205G-103

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pituitary Gland	* Salivary Glands	* Skeletal Muscle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

\* Thymus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 104

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-104

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Peripheral Nerve	* Pituitary Gland	* Salivary Glands
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

* Parathyroid Gland	* Thymus
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**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

**ANIMAL ID:** 105

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-105

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Peripheral Nerve	* Pituitary Gland	* Salivary Glands
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Clitoral Gland

**OBSERVATIONS**

* Liver	Periportal	Vacuolization Cytoplasmic	Minimal
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 106

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-106

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Peripheral Nerve	* Salivary Glands	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Uterus

**MISSING**

* Parathyroid Gland	* Pituitary Gland	* Thymus
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**OBSERVATIONS**

* Lung	Infiltration Cellular	Mixed Cell, Minimal
* Urinary Bladder	Infiltration Cellular	Mixed Cell, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 107

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-107

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Peripheral Nerve	* Pituitary Gland	* Salivary Glands
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

* Clitoral Gland	* Parathyroid Gland
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 108

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-108

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Peripheral Nerve	* Pituitary Gland	* Salivary Glands
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

* Clitoral Gland	* Parathyroid Gland	* Thymus
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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 109

**TRT#:** 11  
**DOSE:** 5000 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 92  
**HISTO:** MB205G-109

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Peripheral Nerve	* Pituitary Gland	* Salivary Glands	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

\* Gallbladder

**OBSERVATIONS**

* Liver	Periportal	Infiltration Cellular Vacuolization Cytoplasmic	Mixed Cell, Minimal Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

**ANIMAL ID:** 110

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 5000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-110

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Peripheral Nerve	* Pituitary Gland	* Salivary Glands
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

* Gallbladder	* Parathyroid Gland
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 111

**TRT#:** 12  
**DOSE:** 10000 PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 92  
**HISTO:** MB205G-111

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Peripheral Nerve	* Pituitary Gland
* Salivary Glands	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**OBSERVATIONS**

* Liver	Centrilobular	Vacuolization Cytoplasmic	Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 112

TRT#: 12

SEX: Female

DAY ON TEST: 5

DOSE: 10000 PPM

DISP: Natural Death

HISTO: MB205G-112

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Peripheral Nerve
* Skeletal Muscle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Urinary Bladder	* Uterus

**MISSING**

* Brain	* Clitoral Gland	* Esophagus	* Gallbladder
* Intestine Small, Ileum	* Lung	* Lymph Node, Mandibular	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Thymus	* Thyroid Gland
* Trachea			

**OBSERVATIONS**

- \* Int Lg Cecum  
Note: TGL 4-NCL
- \* Int Lg Colon  
Note: TGL 5-NCL
- \* Int Lg Rectum  
Note: TGL 6-NCL
- \* Int Sm Duoden  
Note: TGL 1-NCL
- \* Int Sm Ileum  
Note: TGL 3-NST
- \* Int Sm Jejunum  
Note: TGL 2-NCL

PRIMARY CAUSE OF DEATH -

Animal Note: CANNIBALISM AND BADLY AUTOLYZED CONDITION NOTED BY PROSECTOR. CAUSE OF DEATH NO T APPARENT.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 113

TRT#: 12

SEX: Female

DAY ON TEST: 4

DOSE: 10000 PPM

DISP: Natural Death

HISTO: MB205G-113

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Urinary Bladder	* Uterus	

**MISSING**

* Adrenal Cortex	* Adrenal Medulla	* Clitoral Gland	* Esophagus
* Heart	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Parathyroid Gland	* Peripheral Nerve	* Pituitary Gland	* Salivary Glands
* Thymus	* Thyroid Gland	* Trachea	

**AUTO PRECLUDES DIAG.**

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum
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PRIMARY CAUSE OF DEATH

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Animal Note: AT NECROPSY - MOUSE NOTED TO BE CANNIBALIZED AND BADLY AUTOLYZED.

Animal Note: CAVITY- ABDOMINAL, FLUID, RED, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:27:27  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**ANIMAL ID:** 114

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 10000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB205G-114

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Salivary Glands	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

**MISSING**

* Clitoral Gland	* Lymph Node, Mesenteric	* Pituitary Gland
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**OBSERVATIONS**

* Liver	Centrilobular	Vacuolization Cytoplasmic	Minimal
* Lung	Perivascular	Infiltration Cellular	Mixed Cell, Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 115

TRT#: 12

SEX: Female

DAY ON TEST: 15

DOSE: 10000 PPM

DISP: Natural Death

HISTO: MB205G-115

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex  
\* Brain  
\* Kidney  
\* Pancreas  
\* Spleen

\* Blood Vessel  
\* Heart  
\* Liver  
\* Peripheral Nerve  
\* Urinary Bladder

\* Bone  
\* Intestine Large, Colon  
\* Mammary Gland  
\* Skin  
\* Uterus

\* Bone Marrow  
\* Islets, Pancreatic  
\* Nose  
\* Spinal Cord

**MISSING**

\* Adrenal Medulla  
\* Lymph Node, Mandibular  
\* Salivary Glands  
\* Thymus

\* Clitoral Gland  
\* Lymph Node, Mesenteric  
\* Skeletal Muscle  
\* Thyroid Gland

\* Esophagus  
\* Parathyroid Gland  
\* Stomach, Forestomach  
\* Trachea

\* Lung  
\* Pituitary Gland  
\* Stomach, Glandular

**AUTO PRECLUDES DIAG.**

\* Gallbladder  
\* Intestine Small, Ileum

\* Intestine Large, Cecum  
\* Intestine Small, Jejunum

\* Intestine Large, Rectum

\* Intestine Small, Duodenum

**INSUFFICIENT TISSUE**

\* Ovary

**PRIMARY CAUSE OF DEATH**

-

Animal Note: EXTENSIVE CANNIBALIZATION AND AUTOLYSIS HAD OCCURRED.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

**ANIMAL ID:** 116

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 14

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:** MB205G-116

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Peripheral Nerve	* Pituitary Gland
* Salivary Glands	* Skeletal Muscle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

**MISSING**

\* Thyroid Gland

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Ileum

**PRIMARY CAUSE OF DEATH**

-

Animal Note: MINIMAL TO MARKED AUTOLYSIS IN MANY TISSUES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 117

TRT#: 12

SEX: Female

DAY ON TEST: 6

DOSE: 10000 PPM

DISP: Natural Death

HISTO: MB205G-117

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Colon	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Peripheral Nerve	* Pituitary Gland	* Salivary Glands	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

**MISSING**

* Clitoral Gland	* Gallbladder
------------------	---------------

**AUTO PRECLUDES DIAG.**

* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum			

**OBSERVATIONS**

\* Lung  
Note: TGL 1-NCL HYPOSTATIC CONGESTION PRESENT.

\* Pancreas  
Note: TGL 2-NCL MODERATE AUTOLYSIS PRESENT.

**PRIMARY CAUSE OF DEATH**

-  
Animal Note: MINIMAL TO MARKED AUTOLYSIS IN MANY TISSUES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

**ANIMAL ID:** 118

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 10000 PPM

**DISP:** Accidentally Killed

**HISTO:** MB205G-118

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Adrenal Cortex

\* Adrenal Medulla

\* Blood Vessel

\* Bone

\* Bone Marrow

\* Brain

\* Clitoral Gland

\* Esophagus

\* Gallbladder

\* Heart

\* Intestine Large, Cecum

\* Intestine Large, Colon

\* Intestine Large, Rectum

\* Intestine Small, Duodenum

\* Intestine Small, Ileum

\* Intestine Small, Jejunum

\* Islets, Pancreatic

\* Kidney

\* Liver

\* Lung

\* Lymph Node, Mandibular

\* Lymph Node, Mesenteric

\* Mammary Gland

\* Nose

\* Ovary

\* Pancreas

\* Parathyroid Gland

\* Peripheral Nerve

\* Pituitary Gland

\* Salivary Glands

\* Skeletal Muscle

\* Skin

\* Spinal Cord

\* Spleen

\* Stomach, Forestomach

\* Stomach, Glandular

\* Thymus

\* Thyroid Gland

\* Trachea

\* Urinary Bladder

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 119

TRT#: 12

SEX: Female

DAY ON TEST: 13

DOSE: 10000 PPM

DISP: Natural Death

HISTO: MB205G-119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                           |                             |                          |                          |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Cortex          | * Adrenal Medulla           | * Blood Vessel           | * Bone                   |
| * Bone Marrow             | * Brain                     | * Clitoral Gland         | * Esophagus              |
| * Gallbladder             | * Heart                     | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic     | * Kidney                 |
| * Lung                    | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric | * Mammary Gland          |
| * Nose                    | * Ovary                     | * Pancreas               | * Peripheral Nerve       |
| * Pituitary Gland         | * Salivary Glands           | * Skeletal Muscle        | * Skin                   |
| * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular     |
| * Thymus                  | * Thyroid Gland             | * Trachea                | * Urinary Bladder        |
| * Uterus                  |                             |                          |                          |

MISSING

- \* Parathyroid Gland

AUTO PRECLUDES DIAG.

- |                          |                            |
|--------------------------|----------------------------|
| * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|----------------------------|

OBSERVATIONS

- |                 |               |                           |         |
|-----------------|---------------|---------------------------|---------|
| * Liver         | Centrilobular | Vacuolization Cytoplasmic | Minimal |
| * Trachea       |               |                           |         |
| Note: TGL 2-NST |               |                           |         |

PRIMARY CAUSE OF DEATH

-

Animal Note: CAVITY- ABDOMINAL, FLUID, RED, TGL 1-NST

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92013-04

Test Type: 90-DAY

Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 10/22/2014

Time Report Requested: 06:27:27

First Dose M/F: NA / NA

Lab: MBA

ANIMAL ID: 120

TRT#: 12

SEX: Female

DAY ON TEST: 5

DOSE: 10000 PPM

DISP: Natural Death

HISTO: MB205G-120

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Peripheral Nerve	* Salivary Glands	* Skeletal Muscle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

**MISSING**

* Adrenal Medulla	* Bone	* Bone Marrow	* Nose
* Parathyroid Gland	* Pituitary Gland	* Thyroid Gland	

**AUTO PRECLUDES DIAG.**

\* Intestine Small, Jejunum

**OBSERVATIONS**

\* Int Lg Cecum  
Note: TGL 5-NCL

\* Int Lg Colon  
Note: TGL 6-NCL

\* Int Lg Rectum  
Note: TGL 7-NCL

\* Int Sm Duoden  
Note: TGL 2-NCL

\* Int Sm Ileum  
Note: TGL 4-NCL

\* Int Sm Jejunum  
Note: TGL 3-NCL

\* Lung  
Note: TGL 1-NCL

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92013-04

**Test Type:** 90-DAY

**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 4-Methylimidazole

**CAS Number:** 822-36-6

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

**Time Report Requested:** 06:27:27

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

**Lab:** MBA

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**ANIMAL ID:** 120

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 5

**DOSE:** 10000 PPM

**DISP:** Natural Death

**HISTO:** MB205G-120

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

Animal Note: MINIMAL TO MARKED AUTOLYSIS IN SEVERAL TISSUES.

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

\* PROTOCOL REQUIRED TISSUE