

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

<b>C Number:</b>	C92012
<b>Lock Date:</b>	08/31/1994
<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:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

**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> 15
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-1

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Pituitary Gland
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland		

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-2

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Pituitary Gland
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland		

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**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> 15
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-3

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Pituitary Gland
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland		

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**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> 15
	<b>DOSE:</b> VEHICLE CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-4

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland			

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**OBSERVATIONS**

* Pituitary Gland	Cyst	Minimal
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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 5

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-5

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Adrenal Cortex

\* Adrenal Medulla

\* Brain

\* Heart

\* Kidney

\* Liver

\* Lung

\* Pituitary Gland

\* Spleen

\* Stomach, Forestomach

\* Stomach, Glandular

\* Testes

\* Thymus

\* Thyroid Gland

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 6

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** 1200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-6

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

\* Thyroid Gland

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 7

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** 1200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-7

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

\* Thyroid Gland

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 8

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** 1200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-8

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

\* Thyroid Gland

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 9

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** 1200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-9

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

\* Thyroid Gland

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 10

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** 1200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-10

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

\* Thyroid Gland

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 11

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-11

---

**OBSERVATIONS**

\* Pituitary Gland

Pars Distalis

Hypertrophy

Mild

\* Thyroid Gland

Follicular Cel

Hyperplasia

Diffuse, Mild

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 12

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-12

---

**OBSERVATIONS**

\* Pituitary Gland

Pars Distalis

Hypertrophy

Mild

\* Thyroid Gland

Follicular Cel

Hyperplasia

Diffuse, Mild

[ Hyperplasia TGLS = 1-7 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 13

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-13

---

**OBSERVATIONS**

\* Pituitary Gland

Pars Distalis

Hypertrophy

Minimal

\* Thyroid Gland

Follicular Cel

Hyperplasia

Diffuse, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 14

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-14

---

**OBSERVATIONS**

\* Pituitary Gland

Pars Distalis

Hypertrophy

Minimal

\* Thyroid Gland

Follicular Cel

Hyperplasia

Diffuse, Mild

[ Hyperplasia TGLS = 1-7 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 15

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 15

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-15

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**OBSERVATIONS**

\* Pituitary Gland

Pars Distalis

Hypertrophy

Mild

\* Thyroid Gland

Follicular Cel

Hyperplasia

Diffuse, Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 16	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 10000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-16

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

---

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
Note: PARS DISTALIS HYPERTROPHY OF TSH CELLS.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 17	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 10000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-17

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

---

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
Note: PARS DISTALIS HYPERTROPHY OF TSH CELLS.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 18	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 10000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-18

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

---

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
Note: PARS DISTALIS HYPERTROPHY OF TSH CELLS.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Moderate
[ Hyperplasia TGLS = 1-7 ]			

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 19	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 10000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-19

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

---

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
Note: PARS DISTALIS OF HYPERTROPHY OF TSH CELLS.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Moderate
[ Hyperplasia TGLS = 1-7 ]			

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 20	<b>TRT#:</b> 4	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 10000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-20

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus

---

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
Note: PARS DISTALIS HYPERTROPHY OF TSH CELLS.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Moderate
[ Hyperplasia TGLS = 1-7 ]			

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**PRIMARY CAUSE OF DEATH**

-

Animal Note: MINERALIZATION NOTED IN WALL OF AORTA ASSOCIATED WITH THYMUS.

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 21

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-21

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

\* Adrenal Cortex  
\* Kidney  
\* Pituitary Gland  
\* Thymus

\* Adrenal Medulla  
\* Liver  
\* Spleen  
\* Thyroid Gland

\* Brain  
\* Lung  
\* Stomach, Forestomach

\* Heart  
\* Ovary  
\* Stomach, Glandular

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 22

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-22

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Adrenal Cortex

\* Adrenal Medulla

\* Brain

\* Heart

\* Kidney

\* Liver

\* Lung

\* Ovary

\* Pituitary Gland

\* Spleen

\* Stomach, Forestomach

\* Stomach, Glandular

\* Thymus

\* Thyroid Gland

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 23

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-23

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Adrenal Cortex  
\* Kidney  
\* Pituitary Gland  
\* Thymus

\* Adrenal Medulla  
\* Liver  
\* Spleen  
\* Thyroid Gland

\* Brain  
\* Lung  
\* Stomach, Forestomach

\* Heart  
\* Ovary  
\* Stomach, Glandular

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 24

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-24

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Adrenal Cortex  
\* Kidney  
\* Pituitary Gland  
\* Thymus

\* Adrenal Medulla  
\* Liver  
\* Spleen  
\* Thyroid Gland

\* Brain  
\* Lung  
\* Stomach, Forestomach

\* Heart  
\* Ovary  
\* Stomach, Glandular

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 25

**TRT#:** 5

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-25

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Adrenal Cortex

\* Adrenal Medulla

\* Brain

\* Heart

\* Kidney

\* Liver

\* Lung

\* Ovary

\* Pituitary Gland

\* Spleen

\* Stomach, Forestomach

\* Stomach, Glandular

\* Thymus

\* Thyroid Gland

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 26

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** 1200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-26

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

\* Thyroid Gland

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 27	<b>TRT#:</b> 6	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 1200 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-27

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

\* Thyroid Gland

---

**OBSERVATIONS**

Ovary

Bilateral

Cyst

Mild

[ Cyst TGLS = 1-6 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 28

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** 1200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-28

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

\* Thyroid Gland

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 29

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** 1200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-29

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

\* Thyroid Gland

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 30

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** 1200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-30

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

\* Thyroid Gland

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 31

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-31

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

---

**OBSERVATIONS**

\* Thyroid Gland

Follicular Cel

Hyperplasia

Diffuse, Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 32

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-32

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

---

**OBSERVATIONS**

\* Thyroid Gland

Follicular Cel

Hyperplasia

Diffuse, Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

**ANIMAL ID:** 33

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-33

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

---

**OBSERVATIONS**

\* Thyroid Gland

Follicular Cel

Hyperplasia

Diffuse, Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 34	<b>TRT#:</b> 7	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 3300 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-34

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

---

**OBSERVATIONS**

* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Mild
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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01

**Test Type:** 14-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** 2-Methylimidazole

**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 12:50:33

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

**Lab:** MBA

---

**ANIMAL ID:** 35

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 15

**DOSE:** 3300 PPM

**DISP:** Terminal Sacrifice

**HISTO:** MB198G-35

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Pituitary Gland

---

**OBSERVATIONS**

\* Thyroid Gland

Follicular Cel

Hyperplasia

Diffuse, Moderate

[ Hyperplasia TGLS = 1-7 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 36	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 10000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-36

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

---

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
Note: PARS DISTALIS HYPERTROPHY OF TSH CELLS.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 37	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 10000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-37

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

---

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
Note: PARS DISTALIS HYPERTROPHY OF TSH CELLS.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Moderate
[ Hyperplasia TGLS = 1-7 ]			

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 38	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 10000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-38

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

---

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
Note: PARS DISTALIS HYPERTROPHY OF TSH CELLS.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Moderate
[ Hyperplasia TGLS = 1-7 ]			

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PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 39	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 10000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-39

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

---

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
Note: PARS DISTALIS HYPERTROPHY OF TSH CELLS.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Moderate
[ Hyperplasia TGLS = 1-7 ]			

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92012-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2-Methylimidazole  
**CAS Number:** 693-98-1

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 12:50:33  
**First Dose M/F:** NA / NA  
**Lab:** MBA

---

<b>ANIMAL ID:</b> 40	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 15
	<b>DOSE:</b> 10000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> MB198G-40

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Heart
* Kidney	* Liver	* Lung	* Ovary
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus

---

**OBSERVATIONS**

* Pituitary Gland	Pars Distalis	Hypertrophy	Mild
Note: PARS DISTALIS HYPERTROPHY OF TSH CELLS.			
* Thyroid Gland	Follicular Cel	Hyperplasia	Diffuse, Mild

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PRIMARY CAUSE OF DEATH

-

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