

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>C Number:</b>	C62191B
<b>Lock Date:</b>	Not Entered.
<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:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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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> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905421

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

Heart	Inflammation	Chronic Active, Minimal
Kidney	Nephropathy	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905422

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

Heart	Inflammation	Chronic Active, Mild
Kidney	Nephropathy	Minimal
Pancreas	Atrophy	Minimal
Preputial Gland	Inflammation	Chronic Active, Mild

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

**ANIMAL ID:** 3

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905423

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

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

Bone  
Esophagus  
Intestine Small - Duodenum  
Liver  
Mammary Gland  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Prostate  
Spleen  
Thymus

**OBSERVATIONS**

Heart  
Kidney  
Preputial Gland

Inflammation  
Nephropathy  
Inflammation

Chronic Active, Minimal  
Minimal  
Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1 <b>DOSE:</b> 0 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 8905424
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

Heart	Inflammation	Chronic Active, Minimal
Kidney	Nephropathy	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905425

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

Heart	Inflammation	Chronic Active, Mild
Kidney	Nephropathy	Minimal
Liver	Hepatodiaphragmatic Nodule	
Note: TWO HEPATODIAPHRAGMATIC NODULES		
Note: [ HDN ] TGLs = 1,2-12		
Pancreas	Atrophy	Minimal
Preputial Gland	Inflammation	Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1 <b>DOSE:</b> 0 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 8905426
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

---

**OBSERVATIONS**

Heart	Inflammation	Chronic Active, Minimal
Kidney	Nephropathy	Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905427

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

Heart	Inflammation	Chronic Active, Minimal
Kidney	Nephropathy	Minimal
Preputial Gland	Inflammation	Chronic Active, Minimal
Prostate	Inflammation	Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

**ANIMAL ID:** 8

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905428

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Epididymis	Inflammation	Chronic Active, Minimal
Heart	Inflammation	Chronic Active, Minimal
Kidney	Nephropathy	Minimal
Preputial Gland	Inflammation	Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

**ANIMAL ID:** 9

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905429

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Heart	Inflammation	Chronic Active, Minimal
Kidney	Nephropathy	Minimal
Preputial Gland	Inflammation	Chronic Active, Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 10	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 0 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905430

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

Heart	Inflammation	Chronic Active, Minimal
Kidney	Nephropathy	Minimal
Lung	Inflammation	Chronic Active, Minimal
Preputial Gland	Inflammation	Chronic Active, Minimal

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 21

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 905521

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

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**ANIMAL ID:** 22

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 905522

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

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**ANIMAL ID:** 23

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 905523

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

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**ANIMAL ID:** 24

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 905524

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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**ANIMAL ID:** 25

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 905525

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

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**ANIMAL ID:** 26

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 905526

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

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**ANIMAL ID:** 27

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 905527

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**OBSERVATIONS**

Stomach

Forestomach

Fibroma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

---

**ANIMAL ID:** 28

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 905528

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

---

**ANIMAL ID:** 29

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 905529

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:36

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

**Lab:** BAT

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**ANIMAL ID:** 30

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 905530

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 41	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 1000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905501

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Forestomach	Stomach - Glandular
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**OBSERVATIONS**

Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 42

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 1000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905502

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

Stomach - Forestomach

Stomach - Glandular

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**OBSERVATIONS**

Kidney

Nephropathy

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 43	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 1000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905503

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Forestomach	Stomach - Glandular
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**OBSERVATIONS**

Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 44	<b>TRT#:</b> 9 <b>DOSE:</b> 1000 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 8905504
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Forestomach	Stomach - Glandular
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**OBSERVATIONS**

Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 45	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 1000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905505

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Forestomach	Stomach - Glandular
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**OBSERVATIONS**

Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 46	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 1000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905506

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Forestomach	Stomach - Glandular
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**OBSERVATIONS**

Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 47	<b>TRT#:</b> 9 <b>DOSE:</b> 1000 PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 8905507
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Forestomach	Stomach - Glandular
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**OBSERVATIONS**

Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 48	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 1000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905508

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Forestomach
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**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Stomach	Glandular	Mineralization	Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 49	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 1000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905509

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Forestomach	Stomach - Glandular
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**OBSERVATIONS**

Kidney	Nephropathy	Minimal
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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 50	<b>TRT#:</b> 9	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 1000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905510

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Stomach - Forestomach	Stomach - Glandular
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**OBSERVATIONS**

Kidney	Nephropathy	Minimal
Liver	Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 1-4 ]		

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 61	<b>TRT#:</b> 13	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905481

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Stomach	Forestomach	Hyperplasia	Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 62	<b>TRT#:</b> 13	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905482

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach - Glandular

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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
Note: [ HDN ] TGLs = 1-4			
Stomach	Forestomach	Hyperplasia	Mild
Note: [ HYPERPLASIA ] TGLs = 2-6+12			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 63	<b>TRT#:</b> 13	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905483

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Stomach	Forestomach	Hyperplasia	Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 64	<b>TRT#:</b> 13	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905484

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Stomach - Glandular

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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Minimal

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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PRIMARY CAUSE OF DEATH

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:36  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 65	<b>TRT#:</b> 13	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905485

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Stomach	Forestomach	Hyperplasia	Mild
Note: [ HYPERPLASIA ] TGLs = 1-6+12			

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 66	<b>TRT#:</b> 13	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905486

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Stomach	Forestomach	Hyperplasia	Minimal

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 67	<b>TRT#:</b> 13	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905487

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Stomach	Forestomach	Hyperplasia	Minimal
Note: [ HYPERPLASIA ] TGLs = 1-6+12			

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 68	<b>TRT#:</b> 13	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905488

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Stomach	Forestomach	Hyperplasia	Mild
Note: [ HYPERPLASIA ] TGLs = 1-6+12			

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 69	<b>TRT#:</b> 13	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905489

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Stomach	Forestomach	Hyperplasia	Mild
Note: [ HYPERPLASIA ] TGLs = 1-6+12			

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 70	<b>TRT#:</b> 13	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905490

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Kidney	Liver	Stomach - Glandular
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**OBSERVATIONS**

Stomach	Forestomach	Hyperplasia	Mild
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Note: [ HYPERPLASIA ] TGLs = 1-6+12

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 81	<b>TRT#:</b> 17	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905461

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 82	<b>TRT#:</b> 17	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905462

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 83	<b>TRT#:</b> 17	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 905463

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 84	<b>TRT#:</b> 17	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905464

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 85	<b>TRT#:</b> 17	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905465

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 86	<b>TRT#:</b> 17	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905466

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Spleen	Stomach - Glandular
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---

**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 87	<b>TRT#:</b> 17	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905467

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 88	<b>TRT#:</b> 17	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905468

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 89	<b>TRT#:</b> 17	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905469

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 90	<b>TRT#:</b> 17	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905470

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+12

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 101

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 8000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905441

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Heart		Inflammation	Chronic Active, Minimal
Kidney		Cytoplasmic Alteration	Moderate
	Prox Con Tub	Karyomegaly	Minimal
		Nephropathy	Mild
Liver		Inflammation	Chronic Active, Minimal
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Hyperplasia	Moderate

Note: HYPERPLASIA OF LIMITING RIDGE MUCOSA  
Note: [ HYPERPLASIA ] TGLs = 1-6+12

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 102

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 8000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Heart		Inflammation	Chronic Active, Minimal
Kidney		Cytoplasmic Alteration	Mild
	Prox Con Tub	Karyomegaly	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 103

TRT#: 21

SEX: Male

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Skin

OBSERVATIONS

Heart		Inflammation	Chronic Active, Minimal
Kidney		Cytoplasmic Alteration	Moderate
	Prox Con Tub	Karyomegaly	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 104

TRT#: 21

SEX: Male

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Kidney		Cytoplasmic Alteration	Moderate
	Prox Con Tub	Karyomegaly	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Mild
Pancreas		Atrophy	Minimal
Pituitary Gland		Cyst	
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Hyperplasia	Moderate
[ Hyperplasia TGLS = 1-6+12 ]			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 105

TRT#: 21

SEX: Male

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Seminal Vesicle  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Skin  
Thymus

Bone  
Esophagus  
Intestine Small - Duodenum  
Lung  
Nose  
Prostate  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Pancreas  
Salivary Glands  
Stomach - Glandular  
Trachea

OBSERVATIONS

Heart  
Kidney

Prox Con Tub

Liver  
Preputial Gland  
Stomach

Forestomach

Inflammation  
Cytoplasmic Alteration  
Karyomegaly  
Nephropathy  
Inflammation  
Inflammation  
Hyperplasia

Chronic Active, Minimal  
Moderate  
Minimal  
Minimal  
Chronic Active, Mild  
Chronic Active, Mild  
Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 106

TRT#: 21

SEX: Male

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905446

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Seminal Vesicle  
Testes  
Urinary Bladder

Bone  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Skin  
Thymus

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Prostate  
Spleen  
Thyroid Gland

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Pancreas  
Salivary Glands  
Stomach - Glandular  
Trachea

**MISSING**

Adrenal Gland - Medulla

**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
	Prox Con Tub	Karyomegaly	Minimal
Liver		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+12

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 107	<b>TRT#:</b> 21	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 8000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905447

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

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

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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Moderate
	Prox Con Tub	Karyomegaly	Minimal
Liver		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Hyperplasia	Moderate

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Note: [ HYPERPLASIA ] TGLs = 1-6+12

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 108

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 8000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905448

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

Heart		Inflammation	Chronic Active, Minimal
Kidney		Cytoplasmic Alteration	Mild
	Prox Con Tub	Karyomegaly	Minimal
Liver		Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 109

TRT#: 21

SEX: Male

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Pancreas  
Prostate  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Salivary Glands  
Stomach - Glandular  
Trachea

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

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Preputial Gland  
Skin  
Thymus

OBSERVATIONS

Kidney

Cytoplasmic Alteration

Mild

Prox Con Tub

Karyomegaly

Minimal

Liver

Inflammation

Chronic Active, Mild

Stomach

Forestomach

Hyperplasia

Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+12

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 110

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 92

**DOSE:** 8000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905450

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Mild
	Prox Con Tub	Karyomegaly	Minimal
		Nephropathy	Minimal
Liver		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+12

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 121

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905431

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

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

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

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

**OBSERVATIONS**

Clitoral Gland  
Liver

Inflammation  
Hepatodiaphragmatic Nodule  
Inflammation

Chronic Active, Minimal  
  
Focal, Minimal

Note: [ HDN ] TGLs = 1-11

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 122

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905432

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Clitoral Gland

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 123

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905433

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Ovary  
Skin  
Thymus  
Uterus

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Pancreas  
Spleen  
Thyroid Gland

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

**MISSING**

Mammary Gland

Parathyroid Gland

**OBSERVATIONS**

Clitoral Gland  
Liver

Inflammation

Chronic Active, Minimal

Note: TGL-1 INTERPRETED TO BE ANATOMIC VARIATION BY MICRO

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 124

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 8905434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Liver  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus  
Uterus

MISSING

Parathyroid Gland

OBSERVATIONS

Clitoral Gland  
Kidney  
Lung

Inflammation  
Cyst  
Inflammation

Chronic Active, Minimal  
Minimal  
Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: HARDERIAN INFLAM PRESUMABLY RELATED TO ORBITAL BLEEDING

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 125

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905435

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

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

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

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

**OBSERVATIONS**

Clitoral Gland  
Liver

Inflammation  
Inflammation

Chronic Active, Minimal  
Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 126

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905436

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Clitoral Gland

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

**ANIMAL ID:** 127

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905437

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Clitoral Gland

Inflammation

Chronic Active, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

**ANIMAL ID:** 128

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905438

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Kidney  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

**OBSERVATIONS**

Clitoral Gland  
Intestine Small  
Liver

Jejunum

Inflammation  
Inflammation  
Hepatodiaphragmatic Nodule

Chronic Active, Minimal  
Acute, Moderate

Note: [ HDN ] TGLs = 1-11

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 129

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 0 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905439

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Clitoral Gland

Inflammation

Chronic Active, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 130

TRT#: 2

SEX: Female

DAY ON TEST: 92

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 8905440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Clitoral Gland  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus  
Uterus

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Parathyroid Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Trachea

OBSERVATIONS

Brain  
Note: MINERALIZATION, HEMOSIDERIN SUGGEST PRIOR INJURY  
Pancreas

Gliosis  
Atrophy

Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 141

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905531

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 142

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905532

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 143

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905533

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

---

**OBSERVATIONS**

Ovary

Cyst

[ Cyst TGLS = 1-10 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 144

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905534

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 145

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905535

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 146

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905536

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 147

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905537

---

**OBSERVATIONS**

Kidney

Mineralization

Mild

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 149

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905539

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 150

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 500 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905540

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 161

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905511

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach - Forestomach

Stomach - Glandular

---

**OBSERVATIONS**

Kidney

Cytoplasmic Alteration

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 162

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905512

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach - Forestomach

Stomach - Glandular

---

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 163

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905513

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

Stomach - Forestomach

Stomach - Glandular

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 164

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905514

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

Stomach - Forestomach

Stomach - Glandular

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 165

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905515

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

Stomach - Forestomach

Stomach - Glandular

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 166

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905516

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

Stomach - Forestomach

Stomach - Glandular

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 167

TRT#: 10

SEX: Female

DAY ON TEST: 9

DOSE: 1000 PPM

DISP: Accidentally Killed

HISTO: 8905517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Kidney  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Urinary Bladder

Bone  
Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Uterus

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

MISSING

Heart

Liver

Lung

Thymus

AUTO PRECLUDES DIAG.

Islets, Pancreatic

PRIMARY CAUSE OF DEATH

-

Animal Note: ALL ORGANS SIGNIFICANTLY AUTOLYZED

Animal Note: AUTOLYSIS MAY HAVE OBSCURED FINER DIAGNOSES

Animal Note: DEATH DUE TO TRAUMA

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 168

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905518

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

Stomach - Forestomach

Stomach - Glandular

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 169

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905519

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

Stomach - Forestomach

Stomach - Glandular

---

**OBSERVATIONS**

Liver

Hepatodiaphragmatic Nodule

Note: [ HDN ] TGLs = 1-4

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 170

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 1000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905520

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

Stomach - Forestomach

Stomach - Glandular

---

**OBSERVATIONS**

Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-4 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 181

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905491

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

Stomach - Forestomach

Stomach - Glandular

---

**OBSERVATIONS**

Kidney

Cytoplasmic Alteration

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 182	<b>TRT#:</b> 14	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905492

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Kidney	Liver	Stomach - Glandular
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**OBSERVATIONS**

Stomach	Forestomach	Hyperplasia	Minimal
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Note: [ HYPERPLASIA ] TGLs = 1-6+11

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 183

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905493

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver

Stomach - Forestomach

Stomach - Glandular

---

**OBSERVATIONS**

Kidney

Cytoplasmic Alteration

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 184	<b>TRT#:</b> 14	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905494

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
		Nephropathy	Minimal
Stomach	Forestomach	Hyperplasia	Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 185	<b>TRT#:</b> 14	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905495

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Stomach	Forestomach	Hyperplasia	Minimal

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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**PRIMARY CAUSE OF DEATH** -

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 186

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905496

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Stomach - Glandular

---

**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Liver		Hepatodiaphragmatic Nodule	
Note: [ HDN ] TGLs = 1-4			
Stomach	Forestomach	Hyperplasia	Mild
Note: [ HYPERPLASIA ] TGLs = 3-6+11			

---

PRIMARY CAUSE OF DEATH

-

---

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 187	<b>TRT#:</b> 14	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905497

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Stomach - Forestomach	Stomach - Glandular
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**OBSERVATIONS**

Kidney	Cytoplasmic Alteration	Minimal
Liver	Hepatodiaphragmatic Nodule	

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 188	<b>TRT#:</b> 14	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 2000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905498

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Stomach	Forestomach	Hyperplasia	Minimal

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

---

**ANIMAL ID:** 189

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905499

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**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver

Stomach - Glandular

**OBSERVATIONS**

Kidney

Cytoplasmic Alteration

Minimal

Stomach

Forestomach

Hyperplasia

Minimal

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05

**Test Type:** 90-DAY

**Route:** DOSED FEED

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

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate

**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 18:10:37

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

**Lab:** BAT

**ANIMAL ID:** 190

**TRT#:** 14

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 2000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905500

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver Stomach - Glandular

**OBSERVATIONS**

Kidney Cytoplasmic Alteration Minimal

Stomach Forestomach Hyperplasia Minimal

Note: [ HYPERPLASIA ] TGLs = 1-6+11

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 201	<b>TRT#:</b> 18 <b>DOSE:</b> 4000 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 8905471
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

**ANIMAL ID:** 202

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 4000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905472

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver	Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Stomach	Forestomach	Hyperplasia	Mild

---

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 203

**TRT#:** 18

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 4000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905473

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

Stomach - Glandular

**OBSERVATIONS**

Kidney

Cytoplasmic Alteration

Minimal

Liver

Inflammation

Chronic Active, Minimal

Stomach

Forestomach

Hyperplasia

Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+11

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 204	<b>TRT#:</b> 18	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905474

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 205	<b>TRT#:</b> 18 <b>DOSE:</b> 4000 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 8905475
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
--------	---------------------

---

**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

---

<b>ANIMAL ID:</b> 206	<b>TRT#:</b> 18	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905476

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 207	<b>TRT#:</b> 18	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905477

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 208	<b>TRT#:</b> 18 <b>DOSE:</b> 4000 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 8905478
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Liver	Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 209	<b>TRT#:</b> 18	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 92
	<b>DOSE:</b> 4000 PPM	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 8905479

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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<b>NORMAL</b>			
Liver	Spleen	Stomach - Glandular	
<b>OBSERVATIONS</b>			
Kidney		Cytoplasmic Alteration	Minimal
Stomach	Forestomach	Hyperplasia	Mild
Note: [ HYPERPLASIA ] TGLs = 1-6+11			
<b>PRIMARY CAUSE OF DEATH</b>	-		

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**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

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<b>ANIMAL ID:</b> 210	<b>TRT#:</b> 18 <b>DOSE:</b> 4000 PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 92 <b>HISTO:</b> 8905480
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen	Stomach - Glandular
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**OBSERVATIONS**

Kidney		Cytoplasmic Alteration	Minimal
Liver		Inflammation	Chronic Active, Mild
Note: HEPATOCELLULAR NECROSIS A PROMINANT FEATURE			
Stomach	Forestomach	Hyperplasia	Minimal
Note: [ HYPERPLASIA ] TGLs = 1-6+11			

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 221

TRT#: 22

SEX: Female

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Salivary Glands  
Thymus  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thyroid Gland

MISSING

Parathyroid Gland

OBSERVATIONS

Clitoral Gland  
Kidney

Renal Tubule  
Prox Con Tub

Liver  
Stomach

Forestomach

Inflammation  
Cytoplasmic Alteration  
Degeneration  
Karyomegaly  
Pigmentation  
Inflammation  
Hyperplasia

Chronic Active, Minimal  
Minimal  
Mild  
Mild  
Minimal  
Chronic Active, Moderate  
Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

PRIMARY CAUSE OF DEATH

-

Animal Note: UNILATERAL HARDER'S INFLAM DUE TO ORBITAL BLEEDING

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 222

TRT#: 22

SEX: Female

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Thymus  
Uterus

OBSERVATIONS

Clitoral Gland  
Kidney

Prox Con Tub

Liver  
Stomach

Forestomach

Inflammation  
Cytoplasmic Alteration  
Karyomegaly  
Inflammation  
Hyperplasia

Chronic Active, Mild  
Minimal  
Minimal  
Chronic Active, Minimal  
Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 223

**TRT#:** 22

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 8000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905453

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Clitoral Gland		Inflammation	Chronic Active, Minimal
Kidney		Cytoplasmic Alteration	Minimal
	Renal Tubule	Degeneration	Minimal
	Prox Con Tub	Karyomegaly	Minimal
Liver		Inflammation	Chronic Active, Mild
Stomach	Forestomach	Hyperplasia	Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+11

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 224

TRT#: 22

SEX: Female

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Thymus  
Uterus

OBSERVATIONS

Clitoral Gland  
Kidney  
  
Liver  
Stomach

Renal Tubule  
Prox Con Tub  
  
Forestomach  
Forestomach

Inflammation  
Cytoplasmic Alteration  
Degeneration  
Karyomegaly  
Inflammation  
Cyst Epithelial Inclusion  
Hyperplasia

Chronic Active, Minimal  
Minimal  
Minimal  
Minimal  
Chronic Active, Mild  
Mild  
Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+11

Note: APPARENT MUCOSAL CYST NOTED, B11; MAY BE FUNCTION OF CUT

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 225

TRT#: 22

SEX: Female

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Thymus  
Uterus

OBSERVATIONS

Clitoral Gland  
Kidney

Prox Con Tub

Liver  
Stomach

Forestomach

Inflammation  
Cytoplasmic Alteration  
Karyomegaly  
Inflammation  
Hyperplasia

Chronic Active, Mild  
Minimal  
Minimal  
Chronic Active, Mild  
Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 226

**TRT#:** 22

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 8000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905456

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Clitoral Gland		Inflammation	Chronic Active, Mild
Kidney		Cytoplasmic Alteration	Minimal
	Prox Con Tub	Karyomegaly	Minimal
Liver		Inflammation	Chronic Active, Mild
Pancreas		Atrophy	Minimal
Stomach	Forestomach	Hyperplasia	Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+11

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 227

**TRT#:** 22

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 8000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905457

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Clitoral Gland		Inflammation	Chronic Active, Minimal
Kidney		Cytoplasmic Alteration	Minimal
	Prox Con Tub	Karyomegaly	Minimal
		Nephropathy	Minimal
		Pigmentation	Minimal
Liver		Inflammation	Chronic Active, Mild
Lung		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

**PRIMARY CAUSE OF DEATH**

-

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 228

TRT#: 22

SEX: Female

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Thymus  
Uterus

Bone Marrow  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thyroid Gland

OBSERVATIONS

Clitoral Gland  
Heart  
Kidney

Prox Con Tub

Liver  
Stomach

Forestomach

Inflammation  
Inflammation  
Cytoplasmic Alteration  
Karyomegaly  
Inflammation  
Hyperplasia

Chronic Active, Mild  
Chronic Active, Minimal  
Minimal  
Minimal  
Chronic Active, Mild  
Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+11

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05206-05

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Cupric sulfate

CAS Number: 7758-99-8

Date Report Requested: 10/17/2014

Time Report Requested: 18:10:37

First Dose M/F: NA / NA

Lab: BAT

ANIMAL ID: 229

TRT#: 22

SEX: Female

DAY ON TEST: 92

DOSE: 8000 PPM

DISP: Terminal Sacrifice

HISTO: 8905459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Thymus  
Uterus

OBSERVATIONS

Clitoral Gland  
Kidney

Prox Con Tub

Liver  
Stomach

Forestomach

Inflammation  
Cytoplasmic Alteration  
Karyomegaly  
Nephropathy  
Inflammation  
Hyperplasia

Chronic Active, Minimal  
Minimal  
Minimal  
Minimal  
Chronic Active, Mild  
Moderate

Note: [ HYPERPLASIA ] TGLs = 1-6+11

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05206-05  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Cupric sulfate  
**CAS Number:** 7758-99-8

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 18:10:37  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**ANIMAL ID:** 230

**TRT#:** 22

**SEX:** Female

**DAY ON TEST:** 92

**DOSE:** 8000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 8905460

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**OBSERVATIONS**

Clitoral Gland		Inflammation	Chronic Active, Mild
Kidney		Cytoplasmic Alteration	Minimal
	Prox Con Tub	Karyomegaly	Minimal
Liver		Inflammation	Chronic Active, Minimal
Stomach	Forestomach	Hyperplasia	Mild

Note: [ HYPERPLASIA ] TGLs = 1-6+11

PRIMARY CAUSE OF DEATH

-

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