

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

**C Number:** C02120

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Female

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_001

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Bone marrow

Heart

Kidney

Lung

Spleen

Uterus

Myocardium Nos

Bronchus

Hyperplasia, Hematopoietic

Inflammation, Chronic Focal

Inflammation, Chronic

Inflammation, Chronic

Hematopoiesis

Hemangiopericytoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_002

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Lung	Bronchus	Inflammation, Chronic Perivasculitis
Pancreas		Inflammation, Chronic Focal
Trachea		Inflammation, Chronic
Uterus		Hydrometra

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 1\_003

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Intestine Small

Peyers Patch

Hyperplasia, Nos

Spleen

Hyperplasia, Nos

Stomach

Inflammation, Chronic

Uterus

Endometrium

Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 1\_004

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Inflammation, Interstitial

Liver

Bile Duct

Hyperplasia, Nos

Mammary gland

Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_005

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Liver		Hyperplasia, Granulocytic
Pancreas		Hyperplasia, Plasma Cell
Spleen		Hyperplasia, Nos
Uterus	Endometrium	Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_006

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Lung

Bronchus

Metamorphosis, Fatty

Inflammation, Chronic

Perivasculitis

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_007

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Lung

Bronchus

Perivascular Cuffing

Lymph node

Mesenteric Lymph Node

Hyperplasia, Nos

Spleen

Hyperplasia, Nos

Uterus

Endometrium

Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_008

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Liver	Necrosis, Coagulative
Spleen	Erythropoiesis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_009

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Lymph node  
Spleen

Mesenteric Lymph Node

Hyperplasia, Nos  
Congestion, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_011

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Intestine Large

Lung

Spleen

Cecum, Colon

Bronchus

Nematodiasis

Inflammation, Chronic

Perivasculitis

Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_012

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Interstitial
Kidney		Inflammation, Interstitial
Liver	Bile Duct	Hyperplasia, Nos
Urinary bladder		Inflammation, Nos
Uterus		Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_013

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Mammary gland

Uterus

Inflammation, Interstitial

Hyperplasia, Nos

Endometrial Stromal Polyp

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_014

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Pituitary gland

Pelvis

Calcification, Nos  
Hemosiderosis  
Hypertrophy, Focal  
Hyperplasia, Nos

Spleen

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_015

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Tubule

Dilatation, Nos

Lung

Bronchus

Perivascular Cuffing

Spleen

Red Pulp

Hematopoiesis

Uterus

Endometrium

Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_016

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Spleen

Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_018

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Pancreas

Duct Nos

Hyperplasia, Nos

Spleen

Red Pulp

Hematopoiesis

Uterus

Cyst, Nos

Polyp, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_019

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Colon

Nematodiasis

Ovary

Corpus Luteum

Uterus

Endometrium

Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 32000 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Lung

Bronchus

Metamorphosis, Fatty

Inflammation, Chronic

Perivasculitis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_001

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Chronic Focal
Lung	Bronchus	Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_002

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver	Bile Duct	Hyperplasia, Nos
Pituitary gland		Chromophobe Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Granulocytic
Urinary bladder		Hyperplasia, Epithelial

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_003

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Intestine Large  
Kidney  
Liver  
Lung  
  
Mammary gland  
Pancreas  
Preputial gland

Colon  
  
Bronchus  
Bronchus  
  
Islets

Leiomyoma  
Inflammation, Interstitial  
Hyperplasia, Focal  
Inflammation, Acute  
Perivascular Cuffing  
Hyperplasia, Nos  
Hyperplasia, Nos  
Squamous Cell Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_005

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivasculitis
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 2\_006

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Intestine Large

Colon

Nematodiasis

Liver

Hyperplasia, Focal

Lung

Bronchus

Inflammation, Chronic

Ovary

Perivasculitis

Urinary bladder

Cyst, Nos

Uterus

Steatitis

Endometrium

Hydrometra

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_007

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Lung	Bronchus	Perivascular Cuffing
Spleen		Hyperplasia, Nos
Trachea		Inflammation, Nos
Uterus	Endometrium	Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_008

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Lung		Inflammation, Interstitial
	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivasculitis
Pancreas	Acinus	Atrophy, Nos
Uterus		Endometrial Stromal Polyp
	Endometrium	Inflammation, Acute

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_009

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivascularitis
Pancreas	Acinus	Atrophy, Nos
		Inflammation, Acute/Chronic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_010

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Nodule

Heart

Myocardium Nos

Inflammation, Acute/Chronic

Liver

Hyperplasia, Focal

Bile Duct

Hyperplasia, Nos

Lung

Bronchiole

Hyperplasia, Lymphoid

Uterus

Endometrial Stromal Polyp

Endometrium

Inflammation, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_011

**TRT#:** 2

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Lung

Inflammation, Chronic

Perivasculitis

Trachea

Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_012

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Focal
Kidney		Inflammation, Interstitial
Liver	Hepatocytes	Degeneration, Nos Hyperplasia, Focal
Lung	Bronchus	Perivascular Cuffing Pneumonia, Chronic Murine
Lymph node	Mesenteric Lymph Node	Hyperplasia, Lymphoid
Pituitary gland		Adenoma, Nos
Spleen		Hyperplasia, Nos
Stomach	Muscularis	Degeneration, Nos
Uterus	Endometrium	Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_013

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Inflammation, Nos
		Perivascular Cuffing
Ovary		Lymphocytic Inflammatory Infiltrate

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_014

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Acute/Chronic
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate Perivasculitis
Ovary		Lymphocytic Inflammatory Infiltrate
Pituitary gland		Chromophobe Adenoma
Uterus		Endometrial Stromal Polyp

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_015

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Interstitial

Liver

Hyperplasia, Focal

Bile Duct

Hyperplasia, Nos

Lung

Bronchus

Perivascular Cuffing

Uterus

Endometrial Stromal Polyp

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_016

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Clitoral gland

Liver

Lung

Pituitary gland

Bronchus

Inflammation, Chronic Cystic

Hyperplasia, Focal

Inflammation, Chronic

Perivasculitis

Hyperplasia, Focal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_017

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Acute/Chronic
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivasculitis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_018

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Inflammation, Interstitial Lymphocytic Inflammatory Infiltrate
Pancreas	Acinus	Perivasculitis
Pituitary gland		Atrophy, Nos
Urinary bladder		Chromophobe Adenoma Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_019

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Inflammation, Nos
		Perivascular Cuffing

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_021

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Lung	Bronchus	Inflammation, Chronic Perivasculitis
Trachea		Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_022

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver	Bile Duct	Hyperplasia, Nos
Lung	Bronchus	Perivascular Cuffing
Pituitary gland		Chromophobe Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_024

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Bone marrow

Liver

Lung

Bile Duct  
Bronchiole

Inflammation, Focal

Hyperplasia, Focal

Hyperplasia, Nos

Inflammation, Nos

Perivascular Cuffing

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_025

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart		Periarteritis
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
Lung	Bronchiole	Inflammation, Nos
		Perivascular Cuffing
Pancreas		Inflammation, Interstitial
Uterus		Endometrial Stromal Polyp

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_027

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lymph node

Tracheal Lymph Node

Pigmentation, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_029

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Acute/Chronic
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
	Bronchiole	Inflammation, Nos
		Perivascular Cuffing
Uterus		Endometrial Stromal Polyp

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_032

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Heart	Myocardium Nos	Sclerosis
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
	Bronchiole	Lymphocytic Inflammatory Infiltrate
Pituitary gland		Adenoma, Nos
		Hemorrhage

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_033

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivasculitis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_034

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Focal
Kidney		Glomerulonephritis, Nos
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivascularitis
Pituitary gland		Chromophobe Adenoma
Urinary bladder		Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_035

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Focal
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Inflammation, Nos
		Perivascular Cuffing
Uterus		Endometrial Stromal Polyp

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_036

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Focal
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivasculitis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_037

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos
Pituitary gland	
Uterus	Endometrium
	Endometrium

Inflammation, Nos
Hyperplasia, Focal
Hyperplasia, Nos
Inflammation, Acute

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_038

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivasculitis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_039

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Clitoral gland

Hyperplasia, Nos

Kidney

Inflammation, Nos

Liver

Glomerulonephritis, Nos

Lung

Bronchiole

Hyperplasia, Focal

Lymphocytic Inflammatory Infiltrate

Pancreas

Acinus

Perivasculitis

Atrophy, Nos

Pituitary gland

Inflammation, Acute/Chronic

Trachea

Chromophobe Adenoma

Inflammation, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_040

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Nos
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
Mammary gland		Hyperplasia, Nos
Pituitary gland		Chromophobe Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_041

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Acute/Chronic
Kidney		Inflammation, Interstitial
Liver	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate Perivasculitis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** L-Arginine Glutamate  
**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:42:18  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_042

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Interstitial
	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivascularitis
Mammary gland		Hyperplasia, Nos
		Lactation
Pituitary gland		Adenoma, Nos
		Hemorrhage
		Pigmentation, Nos
Uterus	Fallopian Tube	Inflammation, Acute Focal
	Endometrium	Inflammation, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 2\_043

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Acute/Chronic
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivasculitis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 2\_044

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivasculitis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 2\_045

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Acute/Chronic
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
Lung		Inflammation, Interstitial
	Bronchiole	Inflammation, Nos
		Perivascular Cuffing
Mammary gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Urinary bladder		Hyperplasia, Epithelial

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 2\_046

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Nos
Intestine Large	Colon	Nematodiasis
Kidney	Tubule	Dilatation, Nos
		Inflammation, Interstitial
Liver		Angiectasis
		Hyperplasia, Focal
Mammary gland		Hyperplasia, Nos
Uterus	Endometrium	Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 2\_047

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Acute/Chronic
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Acidophil Adenoma

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 2\_048

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate
Uterus		Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 2\_049

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate
		Perivasculitis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 2\_050

**TRT#:** 2  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Acute/Chronic
Kidney		Inflammation, Interstitial
Liver		Hyperplasia, Focal
Lung	Bronchiole	Lymphocytic Inflammatory Infiltrate

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

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**ANIMAL ID:** 3\_001

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Trachea

Hyperplasia, Focal

Inflammation, Acute/Chronic

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 3\_002

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Colon

Nematodiasis

Liver

Hyperplasia, Focal

Bile Duct

Hyperplasia, Nos

Uterus

Endometrium

Inflammation, Acute

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 3\_003

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Hyperplasia, Focal

Pituitary gland

Adenoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** L-Arginine Glutamate

**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 14:42:18

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

**Lab:** NA

---

**ANIMAL ID:** 3\_004

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Hyperplasia, Focal

Uterus

Hydrometra

Endometrium

Hyperplasia, Nos

Endometrium

Inflammation, Acute

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02120  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** L-Arginine Glutamate  
**CAS Number:** 4320-30-3

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:42:18  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_005

**TRT#:** 3  
**DOSE:** 0

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:**  
**HISTO:**

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**OBSERVATIONS**

Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Trachea		Inflammation, Acute/Chronic
Uterus		Endometrial Stromal Polyp

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**PRIMARY CAUSE OF DEATH**

-

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