

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

**C Number:** C02302

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Male

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_001

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart  
Kidney  
Liver  
Mammary gland  
Testis

Myocardium Nos

Fibrosis  
Inflammation, Chronic  
Focal Cellular Change  
Hyperplasia, Nos  
Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_002

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Inflammation, Interstitial
Testis		Interstitial-Cell Tumor
Unspecified		Lipoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_003

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

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**ANIMAL ID:** 1\_004

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Mammary gland

Testis

Thyroid

Unspecified

Follicle

Angiectasis

Inflammation, Chronic

Focal Cellular Change

Adenoma, Nos

Interstitial-Cell Tumor

Atrophy, Nos

Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_005

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Alveolar/Bronchiolar Carcinoma
Pancreas		Acinar-Cell Adenoma
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_006

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Pancreas

Pituitary gland

Testis

Unspecified

Myocardium Nos

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Acinar-Cell Adenoma

Chromophobe Adenoma

Interstitial-Cell Tumor

Fibrosarcoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_007

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Testis		Interstitial-Cell Tumor
Thyroid	Follicle	Hyperplasia, Papillary
Unspecified		Lipoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_008

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Hyperplasia, Adenomatous
Mammary gland		Hyperplasia, Nos
Parathyroid gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_009

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Mammary gland		Lactation
Pancreas		Acinar-Cell Adenoma
Pituitary gland		Chromophobe Adenoma
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_010

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Testis

Neoplastic Nodule

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_011

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
		Hepatocellular Carcinoma
Mammary gland		Fibroadenoma
Pancreas	Islets	Islet-Cell Adenoma
Testis		Interstitial-Cell Tumor
Unspecified		Lipoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_012

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Testis

Unspecified

Myocardium Nos

Cortical Carcinoma

Fibrosis

Inflammation, Chronic

Abscess, Nos

Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_013

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
		Neoplastic Nodule
Testis		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_014

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Unspecified

Fibrosarcoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

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**ANIMAL ID:** 1\_015

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
		Focal Cellular Change
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Fibroma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

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**ANIMAL ID:** 1\_016

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Neoplastic Nodule

Pituitary gland

Chromophobe Adenoma

Testis

Atrophy, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

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**ANIMAL ID:** 1\_017

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Testis

Unspecified

Inflammation, Chronic

Interstitial-Cell Tumor

Fibroma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_018

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Pancreas

Testis

Inflammation, Chronic

Acinar-Cell Adenoma

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_019

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
		Pyelonephritis, Suppurative
Mammary gland		Lactation
Pituitary gland		Chromophobe Adenoma
Prostate		Abscess, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

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**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
		Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Carcinoma
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

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**ANIMAL ID:** 1\_021

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Pheochromocytoma

Inflammation, Chronic

Focal Cellular Change

Hepatocellular Carcinoma

Neoplastic Nodule

Mammary gland

Fibroadenoma

Testis

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_022

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Testis		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

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**ANIMAL ID:** 1\_023

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart  
Kidney  
Parathyroid gland  
Testis

Myocardium Nos

Fibrosis  
Inflammation, Chronic  
Hyperplasia, Nos  
Interstitial-Cell Tumor  
Mesothelioma, Nos

Tunica Vaginalis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_024

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Parathyroid gland

Testis

Unspecified

Myocardium Nos

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Hyperplasia, Nos

Interstitial-Cell Tumor

Lipoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_025

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified		Lipoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_026

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Mammary gland		Hyperplasia, Nos
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_027

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Hepatocellular Carcinoma

Lung

Alveolar/Bronchiolar Carcinoma

Testis

Interstitial-Cell Tumor

Tunica Vaginalis

Mesothelioma, Malignant

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_028

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Mammary gland

Hyperplasia, Nos

Testis

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_029

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Small  
Kidney  
Lung

Medulla  
Myocardium Nos  
Mesentery Nos

Hyperplasia, Nos  
Fibrosis  
Lipoma  
Inflammation, Chronic  
Hyperplasia, Adenomatous

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_030

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma
		Lipoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_031

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Lung		Alveolar/Bronchiolar Adenoma
Mammary gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_032

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Pancreas

Testis

Unspecified

Myocardium Nos

Multiple Organs Nos

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Acinar-Cell Adenoma

Interstitial-Cell Tumor

Fibroma

Mesothelioma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_033

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Liver

Fibrosis, Cholangio

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Testis

Interstitial-Cell Tumor

Unspecified

Fibrosarcoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_034

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Testis

Unspecified

Myocardium Nos

Cortical Adenoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Interstitial-Cell Tumor

Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_035

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortical Adenoma

Kidney

Infarct, Hemorrhagic

Pancreas

Inflammation, Chronic

Parathyroid gland

Acinar-Cell Adenoma

Testis

Hyperplasia, Nos

Unspecified

Interstitial-Cell Tumor

Fibroma

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_036

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma
		Lipoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_037

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Mammary gland

Testis

Unspecified

Myocardium Nos

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Fibroadenoma

Interstitial-Cell Tumor

Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_038

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Parathyroid gland

Testis

Pheochromocytoma

Inflammation, Chronic

Focal Cellular Change

Hyperplasia, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_039

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Parathyroid gland

Testis

Inflammation, Chronic

Hyperplasia, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_040

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hepatocellular Carcinoma

Testis

Interstitial-Cell Tumor

Unspecified

Abdominal Cavity

Mesothelioma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_041

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Parathyroid gland

Testis

Myocardium Nos

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Degeneration, Cystic

Focal Cellular Change

Hyperplasia, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_042

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Pituitary gland		Chromophobe Adenoma
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:03

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

**Lab:** NA

---

**ANIMAL ID:** 1\_043

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Mammary gland		Hyperplasia, Cystic
Pituitary gland		Chromophobe Adenoma
Thyroid	Follicle	Atrophy, Nos

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 1\_044

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Hepatocellular Carcinoma

Lung

Alveolar/Bronchiolar Carcinoma

Testis

Interstitial-Cell Tumor

Unspecified

Abdominal Cavity

Mesothelioma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 1\_045

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Liver	Degeneration, Cystic
Mammary gland	Fibroadenoma
Pancreas	Acinar-Cell Adenoma
Testis	Interstitial-Cell Tumor
Unspecified	Fibroma

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 1\_046

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Pancreas

Pituitary gland

Testis

Unspecified

Myocardium Nos

Islets

Abdominal Cavity

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Acinar-Cell Adenoma

Islet-Cell Adenoma

Chromophobe Adenoma

Interstitial-Cell Tumor

Fibroma

Mesothelioma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 1\_047

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Pancreas		Acinar-Cell Adenoma
Spleen		Fibrosis, Focal
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 1\_048

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Focal Cellular Change

Mammary gland

Neoplastic Nodule

Pituitary gland

Hyperplasia, Nos

Testis

Chromophobe Adenoma

Unspecified

Interstitial-Cell Tumor

Fibroma

Axilla

Lipoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 1\_049

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 1\_050

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 250 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_101

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
		Focal Cellular Change
Pancreas		Fibroma
Prostate		Hyperplasia, Focal
		Metaplasia, Squamous
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_102

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos Epicardium	Fibrosis Mesothelioma, Nos
Kidney		Inflammation, Chronic
Liver		Cytoplasmic Change, Basophilic Fibrosis, Cholangio
Lung		Alveolar/Bronchiolar Carcinoma
Pituitary gland		Carcinoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma Lipoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_103

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Mammary gland

Parathyroid gland

Pituitary gland

Unspecified

Myocardium Nos

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Hyperplasia, Nos

Hyperplasia, Nos

Adenoma, Nos

Fibrosarcoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_104

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Pancreas	Acinus	Atrophy, Focal
Preputial gland		Carcinoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_105

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Pancreas		Acinar-Cell Adenoma
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Monocytic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_106

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Brain

Heart

Intestine Small

Kidney

Mammary gland

Parathyroid gland

Spleen

Testis

Meninges

Myocardium Nos

Duodenum

Cortical Carcinoma

Inflammation, Suppurative

Fibrosis

Inflammation, Necrotizing

Inflammation, Chronic

Hyperplasia, Nos

Hyperplasia, Nos

Fibrosis

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_107

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Cytoplasmic Change, Basophilic
		Fibrosis, Cholangio
		Focal Cellular Change
Mammary gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_108

**TRT#:** 2

**DOSE:** 125 PPM

**SEX:** Male

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Brain  
Kidney  
Liver

Glioblastoma Multiforme  
Inflammation, Chronic  
Cytoplasmic Change, Basophilic  
Degeneration, Cystic  
Fibrosis, Cholangio  
Interstitial-Cell Tumor

Testis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_109

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Mammary gland		Hyperplasia, Nos
Pancreas		Acinar-Cell Adenoma
Prostate		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_110

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Prostate		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_111

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic Pyelonephritis, Suppurative
Liver		Degeneration, Cystic Fibrosis, Cholangio
Seminal vesicle		Abscess, Nos
Testis		Abscess, Nos Interstitial-Cell Tumor
Unspecified		Fibroma
Urinary bladder		Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_112

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Lung

Mammary gland

Pituitary gland

Prostate

Testis

Unspecified

Myocardium Nos

Cortical Adenoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Hepatocellular Carcinoma

Inflammation, Interstitial

Hyperplasia, Nos

Adenoma, Nos

Hyperplasia, Nos

Interstitial-Cell Tumor

Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_113

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Brain	Meninges	Infarct, Hemorrhagic
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
		Focal Cellular Change
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_114

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Kidney

Inflammation, Chronic

Liver

Centrilobular

Necrosis, Diffuse

Pancreas

Acinar-Cell Adenoma

Parathyroid gland

Hyperplasia, Nos

Stomach

Hyperplasia, Epithelial

Testis

Interstitial-Cell Tumor

Unspecified

Leg

Fibroadenoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

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**ANIMAL ID:** 2\_115

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Degeneration, Cystic
Parathyroid gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_116

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
		Hepatocellular Carcinoma
Testis		Interstitial-Cell Tumor
Unspecified	Leg	Lipoma
	Head	Squamous Cell Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_117

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
		Metamorphosis, Fatty
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_118

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart  
Kidney  
Liver  
Mammary gland

Myocardium Nos

Fibrosis  
Inflammation, Chronic  
Fibrosis, Cholangio  
Fibroadenoma  
Fibroma  
Interstitial-Cell Tumor

Testis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_119

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Epididymis

Heart

Kidney

Liver

Mammary gland

Pituitary gland

Testis

Thyroid

Myocardium Nos

Lipoma

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Hyperplasia, Nos

Chromophobe Adenoma

Interstitial-Cell Tumor

C-Cell Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_120

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Lymph node

Mammary gland

Testis

Mesenteric Lymph Node

Inflammation, Chronic

Lymphoma, Nos-Malignant

Hyperplasia, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_121

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
Lung		Alveolar/Bronchiolar Carcinoma
Unspecified	Thorax Nos	Alveolar/Bronchiolar Carcinoma, Invasive

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

**ANIMAL ID:** 2\_122

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Lung

Pituitary gland

Spleen

Testis

Thyroid

Myocardium Nos

Cortical Carcinoma

Fibrosis

Inflammation, Chronic

Fibrosis, Cholangio

Focal Cellular Change

Alveolar/Bronchiolar Carcinoma

Chromophobe Adenoma

Fibrosis

Interstitial-Cell Tumor

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_123

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Degeneration, Cystic
		Fibrosis, Cholangio
		Focal Cellular Change
Pancreas		Acinar-Cell Adenoma
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_124

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Pituitary gland	Acidophil Adenoma
Skin	Squamous Cell Carcinoma
Testis	Interstitial-Cell Tumor
Thyroid	C-Cell Adenoma
Unspecified	Fibroma

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_125

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart  
Kidney  
Preputial gland  
Testis

Myocardium Nos

Fibrosis  
Inflammation, Chronic  
Squamous Cell Carcinoma  
Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_126

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Mammary gland

Pancreas

Parathyroid gland

Pituitary gland

Testis

Myocardium Nos

Myocardium Nos

Myocardium Nos

Infarct, Hemorrhagic

Calcification, Nos

Degeneration, Nos

Fibrosis

Inflammation, Chronic

Degeneration, Cystic

Fibroadenoma

Periarteritis

Hyperplasia, Nos

Chromophobe Adenoma

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_127

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Epididymis		Granuloma, Spermatic
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Degeneration, Cystic
		Fibrosis, Cholangio
		Hemorrhage
	Bile Duct	Hyperplasia, Nos
		Inflammation, Focal
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

**ANIMAL ID:** 2\_128

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Lung

Lymph node

Mammary gland

Salivary gland

Testis

Unspecified

Urinary bladder

Parotid Gland Nos

Parotid Gland Nos

Head

Pheochromocytoma

Inflammation, Chronic

Focal Cellular Change

Squamous Cell Carcinoma, Metastatic

Squamous Cell Carcinoma, Metastatic

Hyperplasia, Nos

Atrophy, Nos

Fibrosis

Interstitial-Cell Tumor

Squamous Cell Carcinoma

Inflammation, Chronic Focal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_129

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
	Atrium	Thrombosis, Nos
Kidney		Inflammation, Chronic
Liver		Degeneration, Cystic
		Fibrosis, Cholangio
		Focal Cellular Change
Mammary gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_130

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Degeneration, Cystic
		Fibrosis, Cholangio
Prostate		Inflammation, Chronic
Spleen		Fibrosis, Focal
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
Unspecified	Abdominal Cavity	Mesothelioma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_131

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
		Tubular-Cell Adenoma
Liver		Fibrosis, Cholangio
Mammary gland		Carcinosarcoma
		Fibroadenoma
Pancreas		Acinar-Cell Adenoma
Testis		Interstitial-Cell Tumor
Unspecified		Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_132

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
		Hyperplasia, Diffuse
Pancreas	Islets	Islet-Cell Adenoma
Spleen		Fibrosis
Testis		Interstitial-Cell Tumor
Unspecified	Head	Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_133

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Myocardium Nos

Fibrosis

Mammary gland

Inflammation, Chronic

Testis

Hyperplasia, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_134

**TRT#:** 2

**DOSE:** 125 PPM

**SEX:** Male

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Liver	Degeneration, Cystic
Pancreas	Acinar-Cell Adenoma
Skin	Squamous Cell Carcinoma
Testis	Interstitial-Cell Tumor
Thyroid	C-Cell Adenoma
Unspecified	Fibroma

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_135

**TRT#:** 2

**DOSE:** 125 PPM

**SEX:** Male

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Liver	Focal Cellular Change
Lung	Alveolar/Bronchiolar Carcinoma
Mammary gland	Hyperplasia, Nos
Pancreas	Acinar-Cell Adenoma
Pituitary gland	Adenoma, Nos
Salivary gland	Hyperplasia, Nos
Testis	Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_136

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Calcification, Nos

Myocardium Nos

Degeneration, Nos

Myocardium Nos

Fibrosis

Atrium

Thrombosis, Nos

Kidney

Inflammation, Chronic

Liver

Degeneration, Cystic

Mammary gland

Hyperplasia, Focal

Testis

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_137

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Myocardium Nos

Calcification, Nos

Myocardium Nos

Degeneration, Nos

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Liver

Angiectasis

Degeneration, Cystic

Parathyroid gland

Fibrosis, Cholangio

Testis

Hyperplasia, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_138

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Mammary gland		Adenoma, Nos
Pancreas		Acinar-Cell Adenoma
	Islets	Islet-Cell Adenoma
Pituitary gland		Chromophobe Adenoma
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_139

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos Myocardium Nos	Degeneration, Nos Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Mammary gland		Cystadenocarcinoma, Nos
Pituitary gland		Chromophobe Adenoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified		Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

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**ANIMAL ID:** 2\_140

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Mammary gland		Hyperplasia, Nos
Pituitary gland		Chromophobe Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_141

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
		Neoplastic Nodule
Spleen		Hematoma, Organized

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

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**ANIMAL ID:** 2\_142

**TRT#:** 2

**DOSE:** 125 PPM

**SEX:** Male

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Testis

Pheochromocytoma

Inflammation, Chronic

Focal Cellular Change

Neoplastic Nodule

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_143

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Kidney

Pancreas

Prostate

Testis

Thyroid

Tunica Vaginalis

Pheochromocytoma

Inflammation, Chronic

Cyst, Hemorrhagic

Fibrosis

Inflammation, Chronic

Interstitial-Cell Tumor

Mesothelioma, Nos

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_144

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
	Atrium	Thrombosis, Nos
Kidney		Inflammation, Chronic
Liver		Hepatocellular Carcinoma
		Necrosis, Focal
Lung		Alveolar/Bronchiolar Adenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Chromophobe Adenoma
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_145

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos Myocardium Nos	Degeneration, Nos Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Pancreas		Acinar-Cell Adenoma
Prostate		Fibrosis
Testis		Inflammation, Chronic Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_146

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma
Unspecified		Fibroma
		Sarcoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_147

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_148

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Focal Cellular Change
Unspecified		Fibroma
	Abdominal Cavity	Lipoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_149

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Mammary gland		Hyperplasia, Nos
Pancreas		Acinar-Cell Adenoma
Pituitary gland		Chromophobe Adenoma
Prostate		Fibrosis
Testis		Inflammation, Chronic
Unspecified		Interstitial-Cell Tumor
		Lipoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 2\_150

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 125 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Parathyroid gland		Hyperplasia, Nos
Salivary gland	Parotid Gland Nos	Calcification, Nos
	Parotid Gland Nos	Fibrosis
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_201

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Monocytic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_202

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

**SEX:** Male  
**DISP:** Scheduled Sacrifice

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

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**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Liver  
Pituitary gland  
Testis  
Unspecified

Myocardium Nos

Bile Duct

Abdomen

Cortical Carcinoma  
Fibrosis  
Inflammation, Chronic  
Hyperplasia, Nos  
Chromophobe Adenoma  
Interstitial-Cell Tumor  
Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_203

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Testis

Bile Duct

Inflammation, Chronic

Fibrosis, Cholangio

Focal Cellular Change

Hyperplasia, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_204

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

**SEX:** Male  
**DISP:** Scheduled Sacrifice

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

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Lung

Pituitary gland

Testis

Myocardium Nos

Myocardium Nos

Cortical Adenoma

Degeneration, Nos

Fibrosis

Inflammation, Chronic

Fibrosis, Cholangio

Necrosis, Focal

Inflammation, Interstitial

Chromophobe Adenoma

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_205

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
Pituitary gland		Adenoma, Nos
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_206

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

**SEX:** Male  
**DISP:** Scheduled Sacrifice

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

---

**OBSERVATIONS**

Adrenal gland  
Heart

Cortex Nos  
Myocardium Nos  
Myocardium Nos

Kidney  
Liver  
Lung  
Prostate  
Testis

Cyst, Nos  
Degeneration, Nos  
Fibrosis  
Inflammation, Chronic  
Fibrosis, Cholangio  
Inflammation, Interstitial  
Hyperplasia, Papillary  
Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_207

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
		Metamorphosis, Fatty
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_208

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

**SEX:** Male  
**DISP:** Moribund Sacrifice

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

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Pancreas

Testis

Myocardium Nos

Periportal

Fibrosis, Focal

Fibrosis

Inflammation, Chronic

Inflammation, Chronic

Megalocytosis

Inflammation, Chronic Focal

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_209

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Myocardium Nos

Cortical Carcinoma

Fibrosis

Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_210

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
	Centrilobular	Metamorphosis, Fatty
Lung		Inflammation, Interstitial
Pancreas		Acinar-Cell Adenoma
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_211

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
Lung		Inflammation, Interstitial
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

**ANIMAL ID:** 3\_212

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
Pituitary gland		Chromophobe Adenoma
Salivary gland	Sublingual Gland Nos	Carcinoma In Situ, Nos
Skin	Foot And Toe Nos	Inflammation, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Ear	Fibrosarcoma
	Axilla	Lymphoma, Histiocytic-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_213

**TRT#:** 3

**DOSE:** 0

**SEX:** Male

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
Pituitary gland		Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_214

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

**SEX:** Male  
**DISP:** Scheduled Sacrifice

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

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Lung		Inflammation, Interstitial
Testis		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_215

**TRT#:** 3

**DOSE:** 0

**SEX:** Male

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
Lung		Inflammation, Interstitial
Pancreas		Acinar-Cell Adenoma
Pituitary gland		Carcinoma, Nos
Salivary gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_216

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
Lung		Inflammation, Interstitial
Lymph node	Mandibular Lymph Node	Hyperplasia, Nos
Pituitary gland		Chromophobe Adenoma
Preputial gland		Squamous Cell Carcinoma
Testis		Hyperplasia, Interstitial Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_217

**TRT#:** 3

**DOSE:** 0

**SEX:** Male

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Kidney

Liver

Mammary gland

Prostate

Urinary bladder

Inflammation, Chronic

Fibrosis, Cholangio

Lactation

Fibrosis

Hemorrhage

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_218

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
	Tubule	Necrosis, Focal
Liver		Fibrosis, Cholangio
Pituitary gland	Anterior Pituitary	Cyst, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_219

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Fibrosis, Cholangio
Mammary gland		Galactocele
Pituitary gland		Carcinoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C02302

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 2,4-Diaminotoluene (2,4-toluene diamine)  
**CAS Number:** 95-80-7

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

**Time Report Requested:** 17:30:04

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

**Lab:** NA

---

**ANIMAL ID:** 3\_220

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Testis

Myocardium Nos

Myocardium Nos

Bile Duct

Pheochromocytoma

Degeneration, Nos

Fibrosis

Inflammation, Chronic

Focal Cellular Change

Hyperplasia, Nos

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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