

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

<b>C Number:</b>	C54604
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Female

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_001

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Lymph node  
Ovary  
Pituitary gland  
Stomach

Papilla

Hyperplasia, Nos  
Mineralization  
Lymphoma, Nos-Malignant  
Papillary Cystadenoma, Nos  
Dilatation, Nos  
Hyperkeratosis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_002

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Kidney

Papilla

Liver  
Lymph node  
Spleen  
Stomach  
Thyroid  
Unspecified

Hyperplasia, Nos  
Mineralization  
Nephropathy  
Hepatocellular Adenoma  
Hematopoiesis  
Hematopoiesis  
Hyperkeratosis  
Hyperplasia, Follicular Cell  
Inflammation, Nos  
Lymphoma, Nos-Malignant

Multiple Organs Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_003

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
		Nephropathy
Lung		Inflammation, Nos
Ovary		Inflammation, Nos
		Mineralization
Spleen		Hematopoiesis
		Necrosis, Nos
Stomach		Necrosis, Nos
Thyroid		Follicular-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_004

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Hyperplasia, Nos
Liver	Hepatocellular Carcinoma
	Metamorphosis, Fatty
	Necrosis, Focal
Lung	Alveolar/Bronchiolar Adenoma
Pituitary gland	Adenoma, Nos
Spleen	Hematopoiesis
	Lymphoma, Nos-Malignant
Stomach	Inflammation, Nos
Thyroid	Follicular-Cell Adenoma
	Hyperplasia, Follicular Cell
Uterus	Hydrometra
	Hyperplasia, Cystic
	Endometrium

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_005

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Hyperplasia, Nos
Kidney	Nephropathy
Liver	Degeneration, Nos
	Hemangiosarcoma
	Hepatocellular Adenoma
Mammary gland	Galactocele
Pituitary gland	Adenoma, Nos
	Dilatation, Nos
Spleen	Angiosarcoma
	Hematopoiesis
Stomach	Acanthosis
	Hyperkeratosis
Thyroid	Follicular-Cell Adenoma
	Hyperplasia, Follicular Cell
Unspecified	Angiosarcoma
Uterus	Hemangioma

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_006

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney		Nephropathy
Liver		Hemorrhage
		Necrosis, Nos
Pituitary gland		Adenoma, Nos
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_007

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Adenoma, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Hepatocellular Carcinoma
Lung		Inflammation, Nos
Pancreas	Acinus	Atrophy, Nos
		Inflammation, Nos
Pituitary gland		Hyperplasia, Nos
Spleen		Hematopoiesis
Thyroid		Follicular-Cell Adenoma
		Hyperplasia, Follicular Cell
Uterus		Hemangioma
		Hydrometra
	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_008

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Mineralization
		Nephropathy
Liver		Degeneration, Nos
		Hepatocellular Adenoma
		Necrosis, Focal
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Thyroid		Hyperplasia, Follicular Cell
Uterus		Hydrometra

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_009

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Liver

Spleen  
Stomach  
Thyroid  
Uterus

Endometrium

Hyperplasia, Nos  
Hepatocellular Adenoma  
Necrosis, Focal  
Hematopoiesis  
Hyperkeratosis  
Follicular-Cell Adenoma  
Hydrometra  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_010

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Gall bladder		Hyperplasia, Epithelial
Kidney		Nephropathy
Liver		Angiosarcoma
Spleen		Hematopoiesis
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic
		Leiomyosarcoma

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_011

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Thyroid  
Unspecified

Multiple Organs Nos

Hyperplasia, Nos  
Mineralization  
Follicular-Cell Adenoma  
Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_012

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos Hyperplasia, Nos
Gall bladder		Hyperplasia, Epithelial
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney	Papilla	Mineralization Nephropathy
Liver		Degeneration, Nos Hemangioma Hepatocellular Carcinoma Necrosis, Ischemic
Pituitary gland		Adenoma, Nos
Spleen		Angiectasis Hematopoiesis
Stomach		Acanthosis Hyperkeratosis
Thyroid		Follicular-Cell Carcinoma
Uterus		Endometrial Stromal Polyp Hydrometra

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_013

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Liver		Necrosis, Focal
Lung		Alveolar/Bronchiolar Adenoma
Pituitary gland		Adenoma, Nos
Spleen		Angiosarcoma
Stomach		Hematopoiesis
		Acanthosis
		Metaplasia, Squamous
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Nos

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_014

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Brain		Embolus, Fat
Gall bladder		Hyperplasia, Epithelial
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Inflammation, Interstitial
	Tubule	Mineralization
		Necrosis, Focal
Liver		Nephropathy
		Hepatocellular Adenoma
		Inflammation, Nos
Ovary		Mineralization
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
Thyroid		Hyperplasia, Follicular Cell
Urinary bladder		Lymphocytic Inflammatory Infiltrate
Uterus		Hydrometra
	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_015

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

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

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**OBSERVATIONS**

Adrenal gland  
Liver  
Spleen  
Thyroid  
Urinary bladder

Hyperplasia, Nos  
Hematopoiesis  
Hematopoiesis  
Hyperplasia, Follicular Cell  
Sarcoma, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_016

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Liver

Hyperplasia, Nos  
Hepatocellular Adenoma  
Necrosis, Focal

Pituitary gland

Adenoma, Nos

Spleen

Hematopoiesis

Thyroid

Follicular-Cell Adenoma

Unspecified

Multiple Organs Nos

Lymphoma, Nos-Malignant

Uterus

Endometrium

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_017

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Liver  
Unspecified

Metamorphosis, Fatty  
Hemorrhage

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_018

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
		Inflammation, Nos
Spleen		Hematopoiesis
Thyroid		Hyperplasia, Follicular Cell
Uterus	Endometrium	Hyperplasia, Nos
		Inflammation, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_019

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland  
Kidney

Liver  
Spleen  
Stomach

Thyroid  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

Hyperplasia, Nos  
Mineralization  
Nephropathy  
Hepatocellular Adenoma  
Hematopoiesis  
Acanthosis  
Hyperkeratosis  
Hyperplasia, Follicular Cell  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_020

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney	Papilla	Mineralization Nephropathy
Liver		Degeneration, Nos Necrosis, Focal
Spleen		Hematopoiesis Lymphoma, Nos-Malignant
Thyroid		Hyperplasia, Follicular Cell
Uterus		Carcinosarcoma Hydrometra
	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_021

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Inflammation, Nos
		Metamorphosis, Fatty
Spleen		Hematopoiesis
Thyroid		Follicular-Cell Adenoma
		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_022

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_023

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

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

---

**OBSERVATIONS**

Kidney	Nephropathy
Liver	Hepatocellular Carcinoma
Lung	Alveolar/Bronchiolar Carcinoma
Stomach	Hyperkeratosis

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_024

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Kidney		Nephropathy
Liver		Necrosis, Focal
Lymph node		Lymphoma, Nos-Malignant
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
Thyroid		Hyperplasia, Follicular Cell
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_025

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Intestine Large	Intestinal Tract	Metaplasia, Nos
Kidney		Mineralization
		Nephropathy
Liver		Necrosis, Focal
Lung		Alveolar/Bronchiolar Adenoma
Spleen		Hematopoiesis
Stomach		Acanthosis
		Hyperkeratosis
		Inflammation, Nos
Thymus		Lymphoma, Nos-Malignant
Thyroid		Hyperplasia, Follicular Cell
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_026

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Liver

Hyperplasia, Nos  
Hepatocellular Carcinoma  
Necrosis, Focal

Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

Lymphoma, Nos-Malignant  
Hydrometra  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_027

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_028

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Hyperplasia, Nos  
Nephropathy  
Hepatocellular Carcinoma  
Necrosis, Focal  
Hyperplasia, Follicular Cell  
Hematopoiesis  
Hyperplasia, Cystic

Thyroid  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_029

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Liver  
Spleen  
Uterus

Necrosis, Focal  
Hematopoiesis  
Abscess, Nos  
Inflammation, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_030

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Liver		Inflammation, Nos
Lung		Alveolar/Bronchiolar Adenoma
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_031

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney

Hyperplasia, Nos  
Mineralization  
Nephropathy

Stomach  
Unspecified

Multiple Organs Nos

Hyperkeratosis  
Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_032

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

---

**OBSERVATIONS**

Kidney	Papilla	Mineralization
		Nephropathy
Liver		Inflammation, Nos
Lymph node		Lymphoma, Undifferentiated-Malignant Type
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
Uterus	Endometrium	Hyperplasia, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_033

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Liver		Hepatocellular Adenoma
		Metamorphosis, Fatty
Stomach		Hyperkeratosis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_034

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Gall bladder		Hyperplasia, Epithelial
Kidney		Nephropathy
Liver		Hepatocellular Carcinoma
		Inflammation, Nos
Pituitary gland		Adenoma, Nos
Stomach	Omentum Nos	Necrosis, Fat
Thyroid		Follicular-Cell Carcinoma
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_035

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney	Papilla	Mineralization Nephropathy
Liver		Cytoplasmic Change, Eosinophilic Inflammation, Nos
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Thyroid		Follicular-Cell Adenoma Hyperplasia, Follicular Cell
Unspecified	Abdominal Cavity	Hematopoiesis
	Abdominal Cavity	Inflammation, Nos
	Multiple Organs Nos	Lymphoma, Nos-Malignant

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_036

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos Hyperplasia, Nos
Gall bladder		Hyperplasia, Epithelial
Kidney	Papilla	Mineralization Nephropathy
Liver		Hepatocellular Carcinoma
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Hyperplasia, Follicular Cell Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_037

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
	Auricular Appendage Nos	Thrombosis, Nos
Kidney		Mineralization
		Nephropathy
Liver		Necrosis, Ischemic
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_038

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney		Nephropathy
Liver		Inflammation, Nos
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_039

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Gall bladder		Hyperplasia, Epithelial
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Stomach		Inflammation, Nos
Thyroid		Follicular-Cell Adenoma
		Hyperplasia, Follicular Cell
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_040

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney		Nephropathy
Liver		Hepatocellular Carcinoma
Lung		Inflammation, Nos
Spleen		Hematopoiesis
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus		Hydrometra

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_041

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Kidney	Papilla	Mineralization
		Nephropathy
Liver		Angiosarcoma
		Hepatocellular Carcinoma
Spleen		Hematopoiesis
Stomach		Acanthosis
		Hyperkeratosis
		Inflammation, Nos
Thyroid		Hyperplasia, Follicular Cell
Uterus		Hydrometra

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_042

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

---

**OBSERVATIONS**

Kidney	Nephropathy
Spleen	Hematopoiesis
Stomach	Hyperkeratosis
Thyroid	Hyperplasia, Follicular Cell
Uterus	Endometrial Stromal Polyp
Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_043

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Hyperplasia, Nos  
Nephropathy  
Degeneration, Nos  
Metamorphosis, Fatty  
Necrosis, Focal

Pituitary gland  
Spleen

Adenoma, Nos  
Hematopoiesis  
Mineralization

Uterus

Endometrium

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_044

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Spleen

Uterus

Endometrium

Hyperplasia, Nos

Nephropathy

Necrosis, Focal

Hematopoiesis

Lymphoma, Nos-Malignant

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_045

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Kidney

Papilla

Hyperplasia, Nos  
Mineralization  
Nephropathy  
Alveolar/Bronchiolar Adenoma  
Hematopoiesis  
Lymphoma, Nos-Malignant

Lung  
Spleen  
Unspecified

Multiple Organs Nos

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_046

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
Lung	Pleural Cavity Nos	Mesothelioma, Malignant
Lymph node		Sarcoma, Nos, Invasive
Stomach		Hyperkeratosis
Unspecified	Multiple Organs Nos	Mesothelioma, Invasive
	Abdominal Cavity	Sarcoma, Nos
Urinary bladder		Sarcoma, Nos, Invasive
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_047

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney		Nephropathy
Lymph node		Hematopoiesis
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Thyroid		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus		Hydrometra

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_048

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Kidney

Papilla

Liver

Lung  
Uterus

Endometrium

Hyperplasia, Nos  
Mineralization  
Nephropathy  
Degeneration, Nos  
Hepatocellular Carcinoma  
Alveolar/Bronchiolar Carcinoma  
Hyperplasia, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_049

**TRT#:** 1  
**DOSE:** 300 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney	Papilla	Mineralization Nephropathy
Liver		Degeneration, Nos Hepatocellular Adenoma Metamorphosis, Fatty
Lung		Alveolar/Bronchiolar Adenoma
Pancreas	Acinus	Atrophy, Nos
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
Thyroid		Follicular-Cell Adenoma
Unspecified	Multiple Organs Nos	Hyperplasia, Follicular Cell Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_050

**TRT#:** 1  
**DOSE:** 300 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland

Hematopoiesis

Kidney

Papilla

Hyperplasia, Nos

Liver

Mineralization

Lung

Hematopoiesis

Lymph node

Inflammation, Nos

Spleen

Lymphoma, Nos-Malignant

Angiectasis

Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_001

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Moribund Sacrifice

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

---

**OBSERVATIONS**

Adrenal gland  
Spleen  
Unspecified  
Uterus

Multiple Organs Nos

Hyperplasia, Nos  
Hematopoiesis  
Lymphoma, Nos-Malignant  
Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_002

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland	Hyperplasia, Nos
Liver	Necrosis, Focal
Pituitary gland	Adenoma, Nos
Spleen	Hematopoiesis
Uterus	Hydrometra
Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_003

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Hyperplasia, Nos  
Nephropathy  
Focal Cellular Change  
Metamorphosis, Fatty  
Necrosis, Focal

Pituitary gland  
Stomach  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

Adenoma, Nos  
Hyperkeratosis  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_004

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Harderian gland	Harderian Gland	Adenoma, Nos
Lung	Bronchus	Inflammation, Nos
		Inflammation, Nos
Stomach		Hyperkeratosis
		Necrosis, Nos
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_005

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Liver		Degeneration, Nos
		Hepatocellular Adenoma
		Necrosis, Focal
Spleen		Hemangioma
		Hematopoiesis
Stomach		Acanthosis
		Hyperkeratosis
		Inflammation, Nos
Thyroid		Follicular-Cell Adenoma
Uterus	Endometrium	Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_006

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

**OBSERVATIONS**

Adrenal gland  
Gall bladder  
Liver  
Lymph node  
Pituitary gland  
Spleen  
Stomach

Hyperplasia, Nos  
Hyperplasia, Epithelial  
Necrosis, Focal  
Angiectasis  
Adenoma, Nos  
Hematopoiesis  
Acanthosis  
Hyperkeratosis  
Inflammation, Nos  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_007

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos
		Hyperplasia, Nos
Liver		Focal Cellular Change
		Necrosis, Focal
Stomach		Acanthosis
		Hyperkeratosis
		Papillomatosis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_008

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Liver  
Stomach

Hyperplasia, Nos  
Necrosis, Focal  
Hyperkeratosis  
Inflammation, Nos  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_009

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Adrenal gland  
Liver  
Lymph node  
Spleen

Hyperplasia, Nos  
Necrosis, Focal  
Lymphoma, Nos-Malignant  
Hematopoiesis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_010

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

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**OBSERVATIONS**

Adrenal gland	Hyperplasia, Nos
Liver	Metamorphosis, Fatty
	Necrosis, Focal
Lung	Alveolar/Bronchiolar Adenoma
	Inflammation, Nos
Pituitary gland	Adenoma, Nos
Spleen	Hematopoiesis
Stomach	Hyperkeratosis
Uterus	Hydrometra
	Hyperplasia, Cystic
	Endometrium

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_011

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Liver

Spleen  
Uterus

Endometrium

Hyperplasia, Nos  
Hepatocellular Adenoma  
Necrosis, Focal  
Hematopoiesis  
Hydrometra  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_012

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Blood

Hematopoietic System

Neoplasm, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_013

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
	Cortex Nos	Hypertrophy, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Hepatocellular Adenoma
		Metamorphosis, Fatty
		Necrosis, Focal
Lung		Hemorrhage
Pituitary gland		Hyperplasia, Focal
Spleen		Hematopoiesis
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_014

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Spleen  
Stomach

Uterus

Endometrium

Hyperplasia, Nos  
Nephropathy  
Hepatocellular Carcinoma  
Metamorphosis, Fatty  
Necrosis, Focal  
Hematopoiesis  
Acanthosis  
Hyperkeratosis  
Inflammation, Nos  
Necrosis, Nos  
Squamous Cell Carcinoma  
Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_015

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Kidney

Liver  
Lymph node

Spleen  
Uterus

Endometrium

Hyperplasia, Nos  
Mineralization  
Nephropathy  
Hepatocellular Adenoma  
Inflammation, Granulomatous  
Lymphoma, Histiocytic-Malignant Type  
Hematopoiesis  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_016

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland  
Liver  
Lymph node  
Unspecified

Multiple Organs Nos  
Tail

Hyperplasia, Nos  
Necrosis, Focal  
Hemorrhage  
Lymphoma, Nos-Malignant  
Sarcoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_017

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Gall bladder		Hyperplasia, Epithelial
Heart	Myocardium Nos	Degeneration, Nos
Liver		Hepatocellular Adenoma
		Metamorphosis, Fatty
Ovary		Necrosis, Focal
Spleen		Mineralization
Stomach		Hematopoiesis
Uterus	Endometrium	Inflammation, Nos
		Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_018

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Kidney

Glomerulosclerosis, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_019

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Kidney

Liver

Spleen

Uterus

Endometrium

Hyperplasia, Nos  
Mineralization  
Nephropathy  
Hepatocellular Adenoma  
Necrosis, Focal  
Angiosarcoma  
Hematopoiesis  
Hydrometra  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_020

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

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**OBSERVATIONS**

Ovary  
Spleen

Tubular Adenoma  
Hematopoiesis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_021

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Liver		Necrosis, Focal
Spleen		Hematopoiesis
Stomach		Inflammation, Nos
Unspecified	Multiple Organs Nos	Lymphoma, Mixed-Malignant Type

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_022

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Kidney		Mineralization
		Nephropathy
Liver		Focal Cellular Change
		Metamorphosis, Fatty
Spleen		Hematopoiesis
Uterus	Endometrium	Hyperplasia, Cystic

---

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_023

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Hyperplasia, Nos  
Nephropathy  
Hepatocellular Carcinoma  
Metamorphosis, Fatty  
Necrosis, Focal  
Hematopoiesis  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

Spleen  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_024

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Lung  
Spleen  
Unspecified

Multiple Organs Nos

Uterus

Endometrium

Hyperplasia, Nos  
Nephropathy  
Inflammation, Nos  
Hematopoiesis  
Inflammation, Nos  
Lymphoma, Nos-Malignant  
Sarcoma, Nos  
Hyperplasia, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_025

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Blood

Hematopoietic System

Neoplasm, Nos

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_026

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Adrenal gland  
Heart  
Lung

Myocardium Nos

Mammary gland  
Stomach

Hyperplasia, Nos  
Degeneration, Nos  
Hemorrhage  
Inflammation, Nos  
Adenocarcinoma, Nos  
Acanthosis  
Hyperkeratosis  
Inflammation, Nos  
Necrosis, Nos  
Lymphoma, Nos-Malignant

Unspecified

Multiple Organs Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_027

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Spleen  
Uterus

Endometrium

Hyperplasia, Nos  
Hematopoiesis  
Hyperplasia, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_028

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Intestine Small  
Kidney

Mesentery Nos  
Papilla

Liver  
Lung  
Spleen  
Stomach

Uterus

Necrosis, Fat  
Mineralization  
Nephropathy  
Hepatocellular Carcinoma  
Osteosarcoma, Metastatic  
Hematopoiesis  
Hyperkeratosis  
Necrosis, Fat  
Hydrometra  
Sarcoma, Nos  
Thrombosis, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_029

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Hyperplasia, Nos  
Nephropathy  
Cytoplasmic Change, Eosinophilic  
Hematopoiesis  
Necrosis, Focal  
Hematopoiesis  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

Spleen  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_030

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Harderian gland	Hardarian Gland	Cystadenoma, Nos
Liver		Necrosis, Focal
Lung		Alveolar/Bronchiolar Carcinoma
Lymph node		Hematopoiesis
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_031

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Adrenal gland  
Liver  
  
Spleen

Hepatocytes

Hyperplasia, Nos  
Hemangiosarcoma  
Necrosis, Nos  
Hemangiosarcoma

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_032

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney

Ovary  
Spleen

Uterus

Endometrium

Hyperplasia, Nos  
Mineralization  
Nephropathy  
Tubular Adenoma  
Hematopoiesis  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_033

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland

Hyperplasia, Nos  
Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Mineralization

Lymph node

Nephropathy

Spleen

Plasmacytosis

Unspecified

Hematopoiesis

Inflammation, Nos

Uterus

Sarcoma, Nos

Hydrometra

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_034

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Liver		Metamorphosis, Fatty
		Necrosis, Focal
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_035

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Lung		Alveolar/Bronchiolar Adenoma
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Adenoma, Nos
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_036

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Liver  
Spleen  
Unspecified

Multiple Organs Nos

Hyperplasia, Nos  
Hepatocellular Carcinoma  
Hematopoiesis  
Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_037

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Ovary		Tubular Adenoma
Pituitary gland		Hyperplasia, Focal
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_038

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland

Dilatation, Nos

Bone marrow

Hyperplasia, Nos

Kidney

Hyperplasia, Hematopoietic

Liver

Nephropathy

Lung

Hepatocellular Carcinoma

Stomach

Hepatocellular Carcinoma, Metastatic

Unspecified

Multiple Organs Nos

Hyperkeratosis

Uterus

Lymphoma, Nos-Malignant

Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_039

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

**OBSERVATIONS**

Kidney		Mineralization
Liver		Hepatocellular Adenoma
		Metamorphosis, Fatty
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Stomach		Acanthosis
		Hyperkeratosis
		Mineralization
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus		Hydrometra
	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_040

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney

Spleen  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

Hyperplasia, Nos  
Mineralization  
Nephropathy  
Hematopoiesis  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_041

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Liver		Focal Cellular Change
		Necrosis, Focal
Pituitary gland		Adenoma, Nos
Stomach		Acanthosis
		Hyperkeratosis
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_042

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Heart  
Liver

Myocardium Nos

Hyperplasia, Nos  
Degeneration, Nos  
Hepatocellular Adenoma  
Metamorphosis, Fatty  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_043

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney

Spleen  
Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

Hyperplasia, Nos  
Mineralization  
Nephropathy  
Hematopoiesis  
Lymphoma, Nos-Malignant  
Hyperplasia, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_044

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Spleen

Stomach

Uterus

Endometrium

Hyperplasia, Nos

Nephropathy

Hepatocellular Adenoma

Metamorphosis, Fatty

Hematopoiesis

Lymphoma, Nos-Malignant

Hyperkeratosis

Hyperplasia, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_045

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Hyperplasia, Nos  
Nephropathy  
Hepatocellular Carcinoma  
Metamorphosis, Fatty  
Hematopoiesis  
Hyperplasia, Cystic

Spleen  
Uterus

Endometrium

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_046

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Stomach  
Unspecified  
Uterus

Multiple Organs Nos

Hyperplasia, Nos  
Hyperkeratosis  
Lymphoma, Nos-Malignant  
Hydrometra

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_047

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver  
Pituitary gland  
Spleen  
Stomach

Adenoma, Nos  
Nephropathy  
Hematopoiesis  
Adenoma, Nos  
Hematopoiesis  
Acanthosis  
Hyperkeratosis  
Inflammation, Nos  
Necrosis, Nos  
Lymphoma, Nos-Malignant

Unspecified

Multiple Organs Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_048

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Unspecified  
Uterus

Multiple Organs Nos

Hyperplasia, Nos  
Nephropathy  
Lymphoma, Nos-Malignant  
Hemorrhage

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_049

**TRT#:** 2  
**DOSE:** 150 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos Inflammation, Nos
Kidney		Nephropathy
Lymph node		Angiectasis
Ovary		Mineralization
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus		Hydrometra

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_050

**TRT#:** 2  
**DOSE:** 150 PPM

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Unspecified

Multiple Sites Nos

Neoplasm, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_001

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

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

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

**OBSERVATIONS**

Adrenal gland  
Harderian gland

Hardarian Gland  
Hardarian Gland

Liver  
  
Lymph node  
Spleen  
Stomach  
Uterus

Hyperplasia, Nos  
Adenoma, Nos  
Inflammation, Nos  
Hepatocellular Adenoma  
Metamorphosis, Fatty  
Necrosis, Focal  
Hematopoiesis  
Hematopoiesis  
Hyperkeratosis  
Hydrometra

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_002

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

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

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

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**OBSERVATIONS**

Adrenal gland  
Liver  
  
Pituitary gland

Hyperplasia, Nos  
Hepatocellular Adenoma  
Metamorphosis, Fatty  
Adenoma, Nos

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_003

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

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

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

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Nos Hyperplasia, Nos
Brain	Choroid Plexus Nos	Mineralization
Liver		Necrosis, Focal
Pituitary gland		Adenoma, Nos
Stomach		Acanthosis Hyperkeratosis
Unspecified	Multiple Organs Nos	Inflammation, Nos
Uterus	Endometrium	Hematopoiesis Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_004

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

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

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

---

**OBSERVATIONS**

Adrenal gland  
Liver  
Pituitary gland  
Spleen  
Uterus

Hyperplasia, Nos  
Necrosis, Focal  
Hyperplasia, Focal  
Hematopoiesis  
Hydrometra  
Hyperplasia, Cystic

Endometrium

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_005

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

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

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

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**OBSERVATIONS**

Adrenal gland  
Liver  
Stomach  
Uterus

Degeneration, Cystic  
Necrosis, Focal  
Mineralization  
Hydrometra  
Hyperplasia, Cystic

Endometrium

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_006

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

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney		Nephropathy
Liver		Hepatocellular Carcinoma
Ovary		Tubular Adenoma
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_007

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

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Liver

Centrilobular

Necrosis, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_008

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

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

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

**OBSERVATIONS**

Intestine Small  
Kidney  
Liver  
Lymph node  
  
Pituitary gland  
Spleen  
Uterus

Peyers Patch

Endometrium

Hyperplasia, Nos  
Mineralization  
Metamorphosis, Fatty  
Hematopoiesis  
Lymphoma, Nos-Malignant  
Adenoma, Nos  
Hematopoiesis  
Adenoma, Nos  
Hydrometra  
Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_009

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

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

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

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**OBSERVATIONS**

Adrenal gland

Liver

Spleen

Stomach

Uterus

Endometrium

Hyperplasia, Nos

Necrosis, Focal

Hematopoiesis

Hyperplasia, Lymphoid

Hyperkeratosis

Inflammation, Nos

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_010

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

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

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

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**OBSERVATIONS**

Gall bladder		Inflammation, Nos
Liver		Necrosis, Focal
Spleen		Hematopoiesis
Stomach		Mineralization
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus		Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_011

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

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

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

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**OBSERVATIONS**

Adrenal gland

Hyperplasia, Nos  
Pheochromocytoma

Liver  
Stomach

Necrosis, Focal  
Acanthosis  
Hyperkeratosis  
Inflammation, Nos  
Necrosis, Nos

Unspecified  
Uterus

Multiple Organs Nos  
Endometrium

Papillomatosis  
Hematopoiesis  
Hydrometra  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_012

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

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Kidney		Nephropathy
Liver		Necrosis, Focal
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus		Hydrometra
	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_013

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

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

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

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**OBSERVATIONS**

Adrenal gland

Liver

Unspecified

Uterus

Multiple Organs Nos

Endometrium

Hyperplasia, Nos

Necrosis, Focal

Lymphoma, Nos-Malignant

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_014

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

**SEX:** Female  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Lung		Sarcoma, Nos, Metastatic
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Stomach		Acanthosis
		Hyperkeratosis
Unspecified	Leg	Sarcoma, Nos
Uterus		Hydrometra

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_015

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

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Unspecified

Abdominal Cavity

Mineralization

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_017

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

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

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

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**OBSERVATIONS**

Adrenal gland  
Intestine Small  
Pituitary gland  
Spleen  
Uterus

Peyers Patch

Hyperplasia, Nos  
Hyperplasia, Nos  
Adenoma, Nos  
Hematopoiesis  
Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_018

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

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

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

**OBSERVATIONS**

Adrenal gland

Hyperplasia, Nos  
Metamorphosis, Fatty

Heart

Inflammation, Nos

Liver

Metamorphosis, Fatty

Pituitary gland

Necrosis, Focal

Spleen

Adenoma, Nos

Stomach

Hematopoiesis

Uterus

Endometrium

Hyperkeratosis

Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_019

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

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Lung		Inflammation, Nos
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Stomach		Squamous Cell Carcinoma
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_020

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

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

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

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**OBSERVATIONS**

Adrenal gland  
Liver  
Uterus

Endometrium

Hyperplasia, Nos  
Necrosis, Focal  
Hyperplasia, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_021

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

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Adrenal gland  
Heart  
Liver  
Spleen

Hyperplasia, Nos  
Angiosarcoma  
Hematopoiesis  
Angiosarcoma  
Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_022

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

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Liver  
Lymph node

Necrosis, Ischemic  
Neoplasm, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_023

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

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

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver  
Spleen  
Uterus

Hyperplasia, Nos  
Nephropathy  
Metamorphosis, Fatty  
Hematopoiesis  
Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_024

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

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

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Lung  
Spleen  
Stomach  
Unspecified

Multiple Organs Nos

Hyperplasia, Nos  
Nephropathy  
Alveolar/Bronchiolar Adenoma  
Hematopoiesis  
Hyperkeratosis  
Lymphoma, Nos-Malignant

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_025

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

**SEX:** Female  
**DISP:** Moribund Sacrifice

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

---

**OBSERVATIONS**

Adrenal gland  
Liver  
Stomach  
Uterus

Adenoma, Nos  
Metamorphosis, Fatty  
Hyperkeratosis  
Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_026

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

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

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

---

**OBSERVATIONS**

Adrenal gland  
Liver  
Spleen  
Uterus

Hyperplasia, Nos  
Necrosis, Focal  
Hematopoiesis  
Hydrometra  
Hyperplasia, Cystic

Endometrium

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_027

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

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

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

---

**OBSERVATIONS**

Adrenal gland  
Heart  
Spleen  
Stomach  
Uterus

Myocardium Nos

Endometrium

Hyperplasia, Nos  
Degeneration, Nos  
Hematopoiesis  
Hyperkeratosis  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_028

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

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

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

---

**OBSERVATIONS**

Adrenal gland  
Intestine Small  
Spleen  
Stomach  
Uterus

Peyers Patch

Endometrium

Hyperplasia, Nos  
Hyperplasia, Nos  
Hematopoiesis  
Inflammation, Nos  
Hydrometra  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_029

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

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Liver		Necrosis, Focal
Spleen		Hematopoiesis
Unspecified	Abdominal Cavity	Abscess, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_030

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

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

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

---

**OBSERVATIONS**

Adrenal gland  
Intestine Small  
Kidney  
Spleen  
Uterus

Peyers Patch

Hyperplasia, Nos  
Hyperplasia, Nos  
Mineralization  
Hematopoiesis  
Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_031

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

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

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

**OBSERVATIONS**

Adrenal gland  
Kidney  
Spleen  
Stomach

Hyperplasia, Nos  
Nephropathy  
Hematopoiesis  
Acanthosis  
Hyperkeratosis  
Hyperplasia, Epithelial  
Inflammation, Nos  
Hydrometra  
Hyperplasia, Cystic

Uterus

Endometrium

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_032

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

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

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

---

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Liver		Necrosis, Focal
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_033

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

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

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

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**OBSERVATIONS**

Adrenal gland  
Liver  
Lymph node

Hyperplasia, Nos  
Necrosis, Focal  
Hemangioma  
Hematopoiesis  
Hematopoiesis  
Hydrometra

Spleen  
Uterus

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_034

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

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

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

---

**OBSERVATIONS**

Adrenal gland

Spleen

Stomach

Uterus

Omentum Nos

Endometrium

Hyperplasia, Nos

Hematopoiesis

Necrosis, Fat

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_035

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

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

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

**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Papilla	Mineralization
Lymph node		Hematopoiesis
Pituitary gland		Hyperplasia, Focal
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
Uterus	Endometrium	Hyperplasia, Cystic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_036

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

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

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

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**OBSERVATIONS**

Adrenal gland  
Kidney  
Lung  
Uterus

Endometrium

Hyperplasia, Nos  
Nephropathy  
Hemorrhage  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_037

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

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

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

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**OBSERVATIONS**

Adrenal gland  
Unspecified  
Uterus

Multiple Organs Nos

Endometrium

Hyperplasia, Nos  
Lymphoma, Nos-Malignant  
Hydrometra  
Hyperplasia, Adenomatous  
Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_038

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

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Liver		Necrosis, Focal
Lymph node		Hematopoiesis
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Uterus	Endometrium	Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_039

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

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Lung		Alveolar/Bronchiolar Carcinoma
Lymph node		Hematopoiesis
Pancreas	Acinus	Atrophy, Nos
Spleen		Hematopoiesis
Stomach		Acanthosis
		Hyperkeratosis
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_040

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

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Lymphoma, Nos-Malignant

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_041

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

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Adrenal gland  
Heart  
Liver

Hyperplasia, Nos  
Mineralization  
Metamorphosis, Fatty  
Necrosis, Focal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_042

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

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

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

---

**OBSERVATIONS**

Adrenal gland  
Spleen  
Stomach

Hyperplasia, Nos  
Hematopoiesis  
Acanthosis  
Hyperkeratosis  
Inflammation, Nos  
Necrosis, Nos  
Papillomatosis  
Hyperplasia, Cystic

Uterus

Endometrium

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_043

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

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

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

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**OBSERVATIONS**

Adrenal gland  
Lymph node  
Ovary  
Spleen  
Uterus

Endometrium

Hyperplasia, Nos  
Hematopoiesis  
Tubular Adenoma  
Hematopoiesis  
Hyperplasia, Cystic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_044

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

**SEX:** Female  
**DISP:** Natural Death

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

---

**OBSERVATIONS**

Ovary

Papillary Cystadenoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_045

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

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

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

**OBSERVATIONS**

Adrenal gland  
Intestine Small  
Liver

Peyers Patch

Stomach

Thyroid  
Uterus

Endometrium

Adenoma, Nos  
Hyperplasia, Nos  
Hepatocellular Adenoma  
Necrosis, Focal  
Acanthosis  
Hyperkeratosis  
Papillomatosis  
Cyst, Follicular Nos  
Hydrometra  
Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_046

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

**SEX:** Female  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Liver  
Uterus

Hemangioma  
Sarcoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_047

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

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

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

**OBSERVATIONS**

Adrenal gland  
Spleen

Stomach  
Unspecified

Uterus

Endometrium

Hyperplasia, Nos  
Hematopoiesis  
Lymphoma, Nos-Malignant  
Hyperkeratosis  
Fibrosis  
Inflammation, Nos  
Sarcoma, Nos  
Hyperplasia, Cystic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_048

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

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

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

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Hyperplasia, Nos

Stomach

Acanthosis

Hyperkeratosis

Unspecified

Multiple Organs Nos

Lymphoma, Nos-Malignant

Uterus

Endometrium

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_049

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

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

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

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**OBSERVATIONS**

Adrenal gland		Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Adenoma, Nos
Thyroid		Inflammation, Necrotizing
Unspecified	Multiple Organs Nos	Lymphoma, Nos-Malignant
Uterus		Hydrometra

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54604  
**Test Type:** Long-Term  
**Route:** Dosed-Water  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 4,4'-Methylenedianiline dihydrochloride  
**CAS Number:** 13552-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:17:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_050

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

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

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

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**OBSERVATIONS**

Pituitary gland  
Spleen  
Stomach

Adenoma, Nos  
Hematopoiesis  
Hyperkeratosis  
Hyperplasia, Epithelial  
Hyperplasia, Cystic

Uterus  
Endometrium

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**PRIMARY CAUSE OF DEATH**

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