

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

C Number: C54604

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Male

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_001

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Pancreas

Islets

Islet-Cell Adenoma

Pituitary gland

Adenoma, Nos

Testis

Atrophy, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_002

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Spleen		Neoplastic Nodule
Testis		Hematopoiesis
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_003

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Kidney		Mineralization
		Nephropathy
Liver		Dilatation, Nos
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Neoplastic Nodule
Pancreas	Acinus	Atrophy, Focal
	Islets	Islet-Cell Adenoma
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
		Mineralization

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_004

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Blood vessel	Artery Nos	Periarteritis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Inflammation, Interstitial
		Mineralization
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Stomach		Inflammation, Nos
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization
Thyroid		Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_005

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
		Nephropathy
Liver		Fibrosis
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Inflammation, Nos
		Necrosis, Nos
		Neoplastic Nodule
Lung		Alveolar/Bronchiolar Adenoma
Pancreas	Acinus	Atrophy, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_006

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Kidney

Liver

Spleen

Urinary bladder

Bile Duct

Nephropathy

Hyperplasia, Nos

Metamorphosis, Fatty

Hematopoiesis

Hemorrhage

Inflammation, Nos

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_007

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Papilla	Mineralization Mineralization Nephropathy
Liver	Bile Duct	Focal Cellular Change Hyperplasia, Nos Metamorphosis, Fatty Neoplastic Nodule
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Preputial gland		Carcinoma, Nos
Skin		Inflammation, Nos
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
Testis	Tubule	Atrophy, Focal Interstitial-Cell Tumor
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: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_008

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos Fibrosis
Kidney		Fibrosis, Focal Mineralization Nephropathy
Liver	Bile Duct Bile Duct	Focal Cellular Change Hyperplasia, Nos Inflammation, Nos Metamorphosis, Fatty Neoplastic Nodule
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos Interstitial-Cell Tumor Mineralization

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_009

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Myocardium Nos

Bile Duct

Bile Duct

Pituitary gland

Prostate

Spleen

Testis

Unspecified

Pheochromocytoma

Degeneration, Nos

Nephropathy

Focal Cellular Change

Hyperplasia, Nos

Inflammation, Nos

Metamorphosis, Fatty

Adenoma, Nos

Hyperplasia, Epithelial

Hematopoiesis

Atrophy, Nos

Interstitial-Cell Tumor

Mineralization

Fibroma

Necrosis, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_010

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Degeneration, Nos

Liver

Metamorphosis, Fatty

Pituitary gland

Adenoma, Nos

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_011

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Lung		Inflammation, Nos
Pituitary gland		Adenoma, Nos
Skin	Nose	Squamous Cell Papilloma
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_012

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_013

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney
Liver

Cortex Nos

Hypertrophy, Focal
Nephropathy
Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Bile Duct

Inflammation, Nos

Spleen

Metamorphosis, Fatty

Testis

Hematopoiesis

Atrophy, Nos

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_014

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
Liver	Bile Duct	Nephropathy
		Cytoplasmic Change, Basophilic
		Dilatation, Nos
Lung	Tubule	Hyperplasia, Nos
		Metamorphosis, Fatty
		Foreign Body, Reaction
		Adenoma, Nos
Pituitary gland		Inflammation, Nos
Prostate		Hematopoiesis
Spleen		Hyperkeratosis
Stomach		Atrophy, Focal
Testis		Interstitial-Cell Tumor
Thyroid		Mineralization
		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_015

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Kidney	Papilla	Inflammation, Nos
	Papilla	Mineralization
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_016

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_017

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Inflammation, Nos
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Lung		Inflammation, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
		Mineralization
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: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_018

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Fibrosis, Diffuse
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_019

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Prostate

Spleen

Testis

Myocardium Nos

Tubule

Bile Duct

Bile Duct

Tubule

Pheochromocytoma

Degeneration, Nos

Necrosis, Focal

Nephropathy

Focal Cellular Change

Hyperplasia, Nos

Inflammation, Nos

Metamorphosis, Fatty

Neoplastic Nodule

Inflammation, Nos

Hematopoiesis

Atrophy, Focal

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_020

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Spleen		Necrosis, Focal
Testis		Hematopoiesis
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_021

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_022

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse
		Nephropathy
Liver		Dilatation, Nos
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Pancreas		Acinar-Cell Adenoma
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_023

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart

Myocardium Nos

Degeneration, Nos

Testis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_024

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial Mineralization Nephropathy
Liver	Bile Duct	Focal Cellular Change
	Bile Duct	Hyperplasia, Nos Inflammation, Nos Metamorphosis, Fatty
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_025

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Dilatation, Nos
	Bile Duct	Hyperplasia, Nos
		Inflammation, Nos
		Neoplastic Nodule
Pituitary gland		Adenoma, Nos
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_026

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_027

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Metamorphosis, Fatty
Lung		Alveolar/Bronchiolar Adenoma
Skin		Cyst, Epidermal Inclusion
		Hyperkeratosis
Stomach		Hyperkeratosis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_028

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Dilatation, Nos
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Bronchopneumonia, Nos
		Foreign Body, Reaction
Pancreas	Acinus	Atrophy, Focal
Testis		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_029

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_030

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Ductus deferens

Vas Deferens Nos

Interstitial-Cell Tumor, Invasive

Epididymis

Interstitial-Cell Tumor, Invasive

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Papilla

Fibrosis, Diffuse

Inflammation, Nos

Mineralization

Nephropathy

Liver

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Bile Duct

Inflammation, Nos

Metamorphosis, Fatty

Lung

Hyperplasia, Alveolar Epithelium

Inflammation, Nos

Spleen

Hematopoiesis

Testis

Interstitial-Cell Tumor, Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_031

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Mineralization
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Neoplastic Nodule
Spleen		Depletion, Lymphoid
		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_032

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos Mineralization
Kidney		Mineralization Nephropathy
Liver	Bile Duct	Focal Cellular Change Hyperplasia, Nos Neoplastic Nodule
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mineralization Liposarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_033

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Small
Kidney
Liver

Pituitary gland
Spleen
Testis

Medulla
Myocardium Nos
Peyers Patch

Bile Duct
Bile Duct

Hyperplasia, Focal
Degeneration, Nos
Hyperplasia, Nos
Nephropathy
Focal Cellular Change
Hyperplasia, Nos
Inflammation, Nos
Adenoma, Nos
Hematopoiesis
Interstitial-Cell Tumor
Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_034

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos Fibrosis Periarteritis
Kidney		Nephropathy
Liver	Bile Duct	Focal Cellular Change Hyperplasia, Nos Metamorphosis, Fatty
Lung		Alveolar/Bronchiolar Carcinoma
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Stomach		Acanthosis Hyperplasia, Epithelial
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Mineralization Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_035

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_036

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Pancreas	Acinus	Hypertrophy, Focal
Spleen		Hematopoiesis
Stomach		Acanthosis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_037

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Necrosis, Focal
Mammary gland		Fibroadenoma
Pituitary gland		Hyperplasia, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_038

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
		Necrosis, Focal
Lung	Bronchus	Inflammation, Focal
		Inflammation, Nos
Pituitary gland		Adenoma, Nos
Preputial gland		Adenoma, Nos
		Necrosis, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_039

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Pituitary gland

Testis

Unspecified

Myocardium Nos

Bile Duct

Multiple Organs Nos

Pheochromocytoma

Degeneration, Nos

Mineralization

Nephropathy

Bile Duct Adenoma

Dilatation, Nos

Focal Cellular Change

Hyperplasia, Nos

Neoplastic Nodule

Adenoma, Nos

Interstitial-Cell Tumor

Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_040

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Intestine Small
Kidney

Peyers Patch

Hyperplasia, Nos
Mineralization
Nephropathy

Liver

Bile Duct

Focal Cellular Change
Hyperplasia, Nos
Metamorphosis, Fatty
Neoplastic Nodule

Pituitary gland

Adenoma, Nos

Spleen

Hematopoiesis

Testis

Atrophy, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_041

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Dilatation, Nos
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Lung	Bronchus	Inflammation, Nos
		Inflammation, Nos
Lymph node		Hyperplasia, Lymphoid
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization
Unspecified		Fibrosis
		Necrosis, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_042

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse
	Tubule	Necrosis, Nos
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Dilatation, Nos
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Lung		Alveolar/Bronchiolar Adenoma
Pituitary gland		Carcinoma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_043

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos Mineralization
Kidney		Mineralization Nephropathy
Liver	Bile Duct Bile Duct	Focal Cellular Change Hyperplasia, Nos Inflammation, Nos Metamorphosis, Fatty Neoplastic Nodule
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Stomach		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma Follicular-Cell Adenoma Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_044

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Lung

Mammary gland

Skin

Spleen

Testis

Thyroid

Unspecified

Myocardium Nos

Bile Duct

Bile Duct

Pheochromocytoma

Degeneration, Nos

Nephropathy

Hyperplasia, Nos

Inflammation, Nos

Neoplastic Nodule

Alveolar/Bronchiolar Adenoma

Fibroadenoma

Acanthosis

Basal-Cell Carcinoma

Hyperkeratosis

Inflammation, Nos

Hematopoiesis

Atrophy, Nos

Interstitial-Cell Tumor

Cyst, Follicular Nos

Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_045

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
		Metamorphosis, Fatty
Lymph node		Hyperplasia, Lymphoid
Prostate		Inflammation, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Thyroid		Follicular-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_046

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hypertrophy, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Mineralization

Nephropathy

Liver

Dilatation, Nos

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Bile Duct

Inflammation, Nos

Metamorphosis, Fatty

Spleen

Hematopoiesis

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_047

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
Liver	Bile Duct	Nephropathy
		Dilatation, Nos
		Focal Cellular Change
Spleen		Hyperplasia, Nos
Testis		Hematopoiesis
		Atrophy, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_048

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
		Metamorphosis, Fatty
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604
Test Type: Long-Term
Route: Dosed-Water
Species/Strain: Rat/F344

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: 17:45:16
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 1_049

TRT#: 1
DOSE: 300 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Kidney		Mineralization
		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Neoplastic Nodule
Preputial gland		Carcinoma, Nos
		Necrosis, Nos
Spleen		Hematopoiesis
		Sarcoma, Nos
Stomach		Hyperkeratosis
		Hyperplasia, Epithelial
		Inflammation, Nos
		Necrosis, Focal
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1_050

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney

Medulla
Myocardium Nos

Hyperplasia, Nos
Degeneration, Nos
Fibrosis, Diffuse
Mineralization
Nephropathy
Cytoplasmic Change, Basophilic
Hyperplasia, Nos
Metamorphosis, Fatty
Inflammation, Nos
Adenoma, Nos
Hematopoiesis
Interstitial-Cell Tumor
Cyst, Follicular Nos

Liver

Bile Duct

Lung
Pituitary gland
Spleen
Testis
Thyroid

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_001

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Dilatation, Nos

Heart

Myocardium Nos

Hypertrophy, Focal

Kidney

Degeneration, Nos

Fibrosis, Diffuse

Mineralization

Liver

Nephropathy

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Spleen

Metamorphosis, Fatty

Depletion, Lymphoid

Testis

Tubule

Hematopoiesis

Atrophy, Focal

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_002

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Hemorrhage
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Focal
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_003

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Kidney
Pituitary gland
Prostate
Spleen
Testis

Cortex Nos

Hypertrophy, Focal
Nephropathy
Adenoma, Nos
Inflammation, Nos
Depletion, Lymphoid
Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_004

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Ileum, Ileum	Fibrosis
	Ileum, Ileum	Inflammation, Nos
Kidney		Fibrosis, Diffuse
		Nephropathy
Liver		Dilatation, Nos
		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Pituitary gland		Hemorrhage
Stomach		Hyperplasia, Epithelial
		Inflammation, Acute/Chronic
		Necrosis, Focal
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604
Test Type: Long-Term
Route: Dosed-Water
Species/Strain: Rat/F344

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: 17:45:16
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_005

TRT#: 2
DOSE: 150 PPM

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Inflammation, Focal
		Metamorphosis, Fatty
Spleen		Depletion, Lymphoid
		Hematopoiesis
Stomach		Hyperkeratosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_006

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos Fibrosis Mineralization
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Dilatation, Nos Focal Cellular Change
	Bile Duct	Hyperplasia, Nos Alveolar/Bronchiolar Adenoma
Lung		Angiectasis
Lymph node		Adenoma, Nos
Pituitary gland		Hematopoiesis
Spleen		Atrophy, Focal
Testis	Tubule	Interstitial-Cell Tumor Mineralization
Thyroid		Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_007

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Small
Kidney
Liver
Pituitary gland
Spleen
Testis

Cortex Nos
Myocardium Nos
Peyers Patch

Tubule

Hypertrophy, Focal
Degeneration, Nos
Hyperplasia, Nos
Nephropathy
Focal Cellular Change
Adenoma, Nos
Hematopoiesis
Atrophy, Focal
Hemorrhage
Interstitial-Cell Tumor
Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_008

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Cortex Nos	Hypertrophy, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse
		Inflammation, Nos
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Necrosis, Focal
Lymph node		Depletion, Lymphoid
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_009

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse Glomerulosclerosis, Nos
	Papilla	Mineralization
	Papilla	Necrosis, Nos Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Nos
Lymph node		Depletion, Lymphoid
Spleen		Depletion, Lymphoid
		Hyperplasia, Reticulum Cell
Stomach		Acanthosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
		Mineralization
Thyroid		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_010

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Kidney

Nephropathy

Lung

Inflammation, Nos

Spleen

Depletion, Lymphoid

Hematopoiesis

Stomach

Hyperplasia, Epithelial

Necrosis, Focal

Unspecified

Fibrosarcoma

Necrosis, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_011

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Small

Kidney

Liver

Lung

Prostate

Stomach

Testis

Myocardium Nos

Peyers Patch

Papilla

Omentum Nos

Tubule

Dilatation, Nos

Degeneration, Nos

Hyperplasia, Nos

Mineralization

Nephropathy

Focal Cellular Change

Alveolar/Bronchiolar Adenoma

Inflammation, Nos

Necrosis, Fat

Atrophy, Focal

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_012

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Brain		Mineralization
Heart		Degeneration, Nos
		Perivasculitis
Kidney		Glomerulosclerosis, Nos
		Mineralization
		Nephropathy
Liver	Bile Duct	Tubular-Cell Adenoma
		Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Alveolar/Bronchiolar Adenoma
		Alveolar/Bronchiolar Carcinoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Skin		Hyperplasia, Basal Cell
		Squamous Cell Papilloma
Spleen		Hematopoiesis
Stomach	Submucosa	Edema, Nos
		Fibrosis
		Hyperplasia, Epithelial
		Inflammation, Nos
		Mineralization
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_013

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Dilatation, Nos

Heart

Myocardium Nos

Hypertrophy, Focal

Intestine Small

Peyers Patch

Degeneration, Nos

Kidney

Hyperplasia, Nos

Liver

Fibrosis, Diffuse

Nephropathy

Pituitary gland

Focal Cellular Change

Metamorphosis, Fatty

Spleen

Neoplastic Nodule

Hyperplasia, Nos

Testis

Hematopoiesis

Atrophy, Nos

Urethra

Urethral Gland

Interstitial-Cell Tumor

Angiectasis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_014

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Artery Nos

Perivasculitis

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Focal Cellular Change

Lymph node

Hyperplasia, Reticulum Cell

Pituitary gland

Adenoma, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_015

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
Pancreas	Bile Duct	Hyperplasia, Nos
Spleen	Islets	Islet-Cell Adenoma
Stomach	Omentum Nos	Hematopoiesis
Testis	Omentum Nos	Inflammation, Granulomatous Necrosis, Fat Atrophy, Nos Interstitial-Cell Tumor Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_016

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Fibrosis, Diffuse
		Inflammation, Nos
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Inflammation, Nos
Pituitary gland		Dilatation, Nos
Skin		Acanthosis
		Hyperkeratosis
		Hyperplasia, Basal Cell
		Squamous Cell Papilloma
Spleen		Hematopoiesis
Stomach		Hyperplasia, Epithelial
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_017

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Unspecified	Adipose Tissue	Hemangioma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_018

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Testis		Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_019

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Pituitary gland

Prostate

Spleen

Testis

Myocardium Nos

Bile Duct

Pheochromocytoma

Degeneration, Nos

Hyperplasia, Tubular Cell

Nephropathy

Focal Cellular Change

Hyperplasia, Nos

Carcinoma, Nos

Inflammation, Nos

Depletion, Lymphoid

Atrophy, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_020

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Myocardium Nos

Bile Duct

Pancreas

Skin

Acinus

Spleen

Testis

Dilatation, Nos

Degeneration, Nos

Nephropathy

Focal Cellular Change

Hyperplasia, Nos

Metamorphosis, Fatty

Atrophy, Nos

Hyperkeratosis

Hyperplasia, Epithelial

Squamous Cell Papilloma

Hematopoiesis

Atrophy, Nos

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604
Test Type: Long-Term
Route: Dosed-Water
Species/Strain: Rat/F344

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: 17:45:16
First Dose M/F: NA / NA
Lab: NA

ANIMAL ID: 2_021

TRT#: 2
DOSE: 150 PPM

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Dilatation, Nos Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse Mineralization Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos Metamorphosis, Fatty
Lymph node		Hyperplasia, Reticulum Cell
Mammary gland		Fibroadenoma
Pancreas	Acinus	Hyperplasia, Focal
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_022

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
	Cortex Nos	Hypertrophy, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Jejunum	Inflammation, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
Lung		Inflammation, Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_023

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hypertrophy, Focal Metamorphosis, Fatty
Kidney		Fibrosis, Diffuse Nephropathy
Liver	Bile Duct Bile Duct	Focal Cellular Change Hyperplasia, Nos Inflammation, Nos Metamorphosis, Fatty Neoplastic Nodule
Lymph node		Hyperplasia, Lymphoid Plasmacytosis
Skin	Ear	Hyperplasia, Epithelial
Spleen		Depletion, Lymphoid Hematopoiesis
Testis		Atrophy, Nos Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_024

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Nos Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos Fibrosis Thrombosis, Nos
Intestine Large	Intestinal Tract Intestinal Tract Intestinal Tract	Fibrosis Inflammation, Nos Necrosis, Diffuse
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Fibrosis, Diffuse Nephropathy
Liver	Bile Duct Bile Duct	Hyperplasia, Nos Inflammation, Nos Metamorphosis, Fatty
Lung		Fibrosis Inflammation, Nos
Spleen		Hematopoiesis
Stomach		Hyperkeratosis Hyperplasia, Epithelial
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_025

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hypertrophy, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Lung		Inflammation, Nos
Skin		Cyst, Epidermal Inclusion
		Hyperkeratosis
		Hyperplasia, Epithelial
Spleen		Hematopoiesis
Stomach		Hyperplasia, Epithelial
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_026

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse
		Inflammation, Nos
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_027

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Pancreas

Spleen

Testis

Myocardium Nos

Bile Duct

Bile Duct

Islets

Dilatation, Nos

Degeneration, Nos

Mineralization

Nephropathy

Focal Cellular Change

Hyperplasia, Nos

Inflammation, Nos

Inflammation, Nos

Hyperplasia, Nos

Depletion, Lymphoid

Hematopoiesis

Atrophy, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_028

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Dilatation, Nos

Heart

Cortex Nos

Hyperplasia, Nos

Intestine Large

Myocardium Nos

Hypertrophy, Nos

Kidney

Colon

Degeneration, Nos

Liver

Bile Duct

Parasitism

Bile Duct

Nephropathy

Bile Duct

Focal Cellular Change

Lung

Bile Duct

Hyperplasia, Nos

Pancreas

Bile Duct

Inflammation, Nos

Pituitary gland

Islets

Metamorphosis, Fatty

Spleen

Inflammation, Nos

Testis

Hyperplasia, Nos

Adenoma, Nos

Hematopoiesis

Atrophy, Nos

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_029

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Brain

Astrocytoma

Hemorrhage

Heart

Myocardium Nos

Degeneration, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_030

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos Fibrosis
Kidney		Fibrosis, Diffuse Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Unspecified		Fibrosarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_031

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hypertrophy, Focal
Metamorphosis, Fatty

Heart

Myocardium Nos

Degeneration, Nos

Intestine Small

Peyers Patch

Hyperplasia, Nos

Kidney

Nephropathy

Pancreas

Islets

Islet-Cell Adenoma

Pituitary gland

Adenoma, Nos

Prostate

Inflammation, Nos

Spleen

Depletion, Lymphoid

Testis

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_032

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Dilatation, Nos
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Inflammation, Nos
Lymph node		Depletion, Lymphoid
Pituitary gland		Adenoma, Nos
Spleen		Depletion, Lymphoid
		Hematopoiesis
Stomach		Acanthosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_033

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Lung		Hyperplasia, Epithelial
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Skin	Lip Nos	Hyperkeratosis
	Lip Nos	Hyperplasia, Epithelial
	Lip Nos	Squamous Cell Papilloma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_034

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Fibrosis, Diffuse
		Nephropathy
Liver		Dilatation, Nos
	Bile Duct	Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
Prostate		Inflammation, Nos
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_035

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
		Neoplastic Nodule
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_036

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Hydrocephalus, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Testis		Hyperplasia, Interstitial Cell
Thyroid		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_037

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Lung		Inflammation, Nos
Pituitary gland		Carcinoma, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Thyroid		Cystic Follicles
		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_038

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hypertrophy, Focal

Heart

Myocardium Nos

Degeneration, Nos

Intestine Small

Peyers Patch

Hyperplasia, Nos

Kidney

Fibrosis, Diffuse

Inflammation, Nos

Liver

Nephropathy

Focal Cellular Change

Mammary gland

Bile Duct

Hyperplasia, Nos

Galactocele

Hyperplasia, Nos

Pituitary gland

Adenoma, Nos

Prostate

Inflammation, Nos

Spleen

Hematopoiesis

Stomach

Hyperplasia, Epithelial

Testis

Atrophy, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_039

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Spleen

Testis

Myocardium Nos

Bile Duct

Dilatation, Nos

Degeneration, Nos

Mineralization

Nephropathy

Focal Cellular Change

Hyperplasia, Nos

Metamorphosis, Fatty

Hematopoiesis

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_040

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hypertrophy, Focal Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Fibrosis, Diffuse Mineralization Nephropathy
Liver		Dilatation, Nos Focal Cellular Change Metamorphosis, Fatty Neoplastic Nodule
Lung		Inflammation, Nos
Lymph node		Angiectasis
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_041

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Brain		Hydrocephalus, Nos
Epididymis		Inflammation, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Pituitary gland		Adenoma, Nos
Stomach		Hyperkeratosis
Testis		Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_042

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Small
Kidney
Liver

Myocardium Nos
Peyers Patch

Bile Duct
Bile Duct

Pancreas
Pituitary gland
Prostate
Spleen
Testis

Acinus

Scrotum Nos

Pheochromocytoma
Degeneration, Nos
Hyperplasia, Nos
Nephropathy
Focal Cellular Change
Hyperplasia, Nos
Inflammation, Nos
Metamorphosis, Fatty
Neoplastic Nodule
Atrophy, Focal
Adenoma, Nos
Inflammation, Nos
Hematopoiesis
Atrophy, Nos
Interstitial-Cell Tumor
Leiomyosarcoma
Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_043

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse
		Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified		Hemorrhage
	Multiple Organs Nos	Leukemia, Myelomonocytic
		Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_044

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Kidney

Liver

Bile Duct

Spleen

Testis

Dilatation, Nos

Nephropathy

Focal Cellular Change

Hyperplasia, Nos

Metamorphosis, Fatty

Hematopoiesis

Atrophy, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_045

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse Nephropathy
Liver	Bile Duct	Focal Cellular Change
		Hyperplasia, Nos
Lung		Metamorphosis, Fatty
Lymph node		Inflammation, Diffuse
		Depletion, Lymphoid
		Plasmacytosis
Mammary gland		Inflammation, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Spleen		Depletion, Lymphoid
Testis		Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_046

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Myocardium Nos

Dilatation, Nos

Degeneration, Nos

Fibrosis, Diffuse

Mineralization

Nephropathy

Liver

Focal Cellular Change

Pancreas

Bile Duct

Hyperplasia, Nos

Prostate

Acinus

Hyperplasia, Focal

Spleen

Inflammation, Nos

Testis

Hematopoiesis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_047

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Fibrosis, Diffuse Glomerulosclerosis, Nos Inflammation, Nos Mineralization Nephropathy
Liver		Cytoplasmic Change, Basophilic Neoplastic Nodule
Pituitary gland		Adenoma, Nos
Prostate		Fibrosis, Diffuse Hemorrhage Inflammation, Nos
Spleen		Hematopoiesis
Stomach		Hyperplasia, Epithelial
Testis	Tubule	Atrophy, Focal Interstitial-Cell Tumor
Thyroid		Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_048

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Hypertrophy, Focal
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Fibrosis, Diffuse
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Pancreas	Acinus	Atrophy, Focal
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_049

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Papilla	Mineralization
		Nephropathy
Lung		Inflammation, Nos
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Lymphoma, Histiocytic-Malignant Type

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2_050

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 150 PPM

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hypertrophy, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Dilatation, Nos

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Bile Duct

Inflammation, Nos

Metamorphosis, Fatty

Neoplastic Nodule

Pancreas

Islets

Islet-Cell Adenoma

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Mineralization

Thyroid

C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_001

TRT#: 3
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization
Thyroid		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_002

TRT#: 3
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_003

TRT#: 3
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Blood	Hematopoietic System	Leukemia, Nos
Heart	Myocardium Nos	Degeneration, Nos
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Stomach		Hyperkeratosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_004

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Focal Cellular Change

Metamorphosis, Fatty

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Adenoma, Nos

Spleen

Hematopoiesis

Thyroid

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_005

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Focal Cellular Change

Bile Duct

Hyperplasia, Nos

Mammary gland

Fibroadenoma

Pituitary gland

Adenoma, Nos

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Mineralization

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_006

TRT#: 3

DOSE: 0

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney

Mammary gland

Spleen

Nephropathy

Fibroadenoma

Hematopoiesis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_007

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis	Tubule	Hypertrophy, Focal
		Interstitial-Cell Tumor
		Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_008

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Blood

Hematopoietic System

Leukemia, Nos

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Metamorphosis, Fatty

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_009

TRT#: 3
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Spleen		Depletion, Lymphoid
		Hematopoiesis
Stomach		Necrosis, Focal
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_010

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Papilla	Mineralization
		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
Lung	Bronchus	Inflammation, Focal
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis		Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_011

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Mammary gland		Adenoma, Nos
		Galactocele
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_012

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_013

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Inflammation, Nos
Pancreas		Acinar-Cell Adenoma
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Thyroid		C-Cell Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_014

TRT#: 3
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Hyperplasia, Nos
Heart	Myocardium Nos	Degeneration, Nos
		Fibrosis
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Mammary gland		Galactocele
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:16

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_015

TRT#: 3

DOSE: 0

SEX: Male

DISP: Natural Death

DAY ON TEST:

HISTO:

OBSERVATIONS

Kidney

Testis

Nephropathy

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_016

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Prostate		Hyperplasia, Focal
Spleen		Fibrosis, Focal
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_017

TRT#: 3
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Lung	Bronchus	Inflammation, Focal
		Inflammation, Nos
Pituitary gland		Adenoma, Nos
		Dilatation, Nos
Spleen		Hematopoiesis
Stomach		Hyperkeratosis
	Submucosa	Inflammation, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_018

TRT#: 3
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_019

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Kidney
Liver
Preputial gland
Spleen
Testis

Medulla
Myocardium Nos

Hyperplasia, Nos
Degeneration, Nos
Nephropathy
Cytoplasmic Change, Basophilic
Adenoma, Nos
Hematopoiesis
Atrophy, Nos
Interstitial-Cell Tumor
Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_020

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Cortex Nos

Hypertrophy, Nos

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Bile Duct

Nephropathy

Lung

Bile Duct

Hyperplasia, Nos

Stomach

Inflammation, Nos

Testis

Inflammation, Nos

Necrosis, Focal

Atrophy, Nos

Interstitial-Cell Tumor

Unspecified

Mineralization

Fibroma

PRIMARY CAUSE OF DEATH

-

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_021

TRT#: 3
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Metamorphosis, Fatty
Lung		Neoplasm, Nos, Metastatic
Spleen		Hematopoiesis
Stomach		Neurofibrosarcoma
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_022

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Natural Death

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Lung		Inflammation, Nos
Pituitary gland		Carcinoma, Nos
Prostate		Inflammation, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_023

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Blood vessel	Artery Nos	Mineralization
	Artery Nos	Periarteritis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Thymus		Thymoma, Benign
Thyroid		C-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_024

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma
Ear		Sarcoma, Nos
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic Dilatation, Nos
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar/Bronchiolar Adenoma
Pituitary gland		Adenoma, Nos
Skin		Inflammation, Necrotizing
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mineralization Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_025

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
Preputial gland		Adenoma, Nos
		Metaplasia, Squamous
		Necrosis, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_026

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Blood vessel

Artery Nos

Periarteritis

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Nos

Pituitary gland

Metamorphosis, Fatty

Prostate

Adenoma, Nos

Testis

Inflammation, Nos

Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_027

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Pheochromocytoma, Malignant
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial Mineralization Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
Lung		Inflammation, Nos Pheochromocytoma, Metastatic
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Acute Necrosis, Nos
Spleen		Depletion, Lymphoid Hematopoiesis
Testis		Atrophy, Nos Interstitial-Cell Tumor
Urinary bladder		Hemorrhage Inflammation, Acute Necrosis, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_028

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
		Mineralization
Unspecified		Fibroma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_029

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Preputial gland		Carcinoma, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_030

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Peyers Patch	Hyperplasia, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
Lung		Alveolar/Bronchiolar Adenoma
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_031

TRT#: 3
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Pancreas	Acinus	Atrophy, Focal
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_032

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
		Mineralization
Thyroid		Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_033

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Myocardium Nos

Bile Duct

Bile Duct

Lung

Pituitary gland

Spleen

Stomach

Testis

Omentum Nos

Tubule

Pheochromocytoma

Degeneration, Nos

Nephropathy

Hyperplasia, Nos

Inflammation, Nos

Metamorphosis, Fatty

Inflammation, Nos

Adenoma, Nos

Hematopoiesis

Necrosis, Fat

Atrophy, Focal

Interstitial-Cell Tumor

Mineralization

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_034

TRT#: 3
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Adrenal gland
Kidney
Liver
Pituitary gland
Unspecified

Bile Duct

Multiple Organs Nos

Necrosis, Nos
Nephropathy
Hyperplasia, Nos
Adenoma, Nos
Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_035

TRT#: 3
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_036

TRT#: 3
DOSE: 0

SEX: Male
DISP: Natural Death

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization Nephropathy
Liver	Bile Duct	Cytoplasmic Change, Basophilic Hyperplasia, Nos
Testis		Atrophy, Nos Interstitial-Cell Tumor
Unspecified	Abdominal Cavity	Sarcoma, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_037

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Fibrosis, Diffuse
		Mineralization
		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
Lymph node		Inflammation, Nos
Prostate		Mineralization
Spleen		Hematopoiesis
Stomach	Submucosa	Edema, Nos
		Hyperkeratosis
		Hyperplasia, Epithelial
		Inflammation, Nos
	Omentum Nos	Necrosis, Fat
		Necrosis, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_038

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Kidney

Liver

Myocardium Nos

Bile Duct

Bile Duct

Prostate

Skin

Spleen

Testis

Pheochromocytoma

Degeneration, Nos

Nephropathy

Cytoplasmic Change, Basophilic

Hyperplasia, Nos

Inflammation, Nos

Inflammation, Nos

Hyperkeratosis

Hyperplasia, Basal Cell

Hematopoiesis

Interstitial-Cell Tumor

Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_039

TRT#: 3
DOSE: 0

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Fibrosis, Diffuse
		Nephropathy
Lymph node		Depletion, Lymphoid
Mammary gland		Galactocele
Pituitary gland		Adenoma, Nos
Preputial gland		Adenoma, Nos
Prostate		Inflammation, Nos
Spleen		Depletion, Lymphoid
		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_040

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Prostate		Hyperplasia, Focal
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_041

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland
Heart
Intestine Small
Kidney
Liver
Spleen
Testis

Medulla
Myocardium Nos
Peyers Patch

Hyperplasia, Nos
Degeneration, Nos
Hyperplasia, Nos
Nephropathy
Focal Cellular Change
Hematopoiesis
Atrophy, Nos
Interstitial-Cell Tumor
Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_042

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Adenoma, Nos

Spleen

Hematopoiesis

Testis

Inflammation, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

C-Cell Carcinoma

Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_043

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Skin		Hyperkeratosis
		Squamous Cell Carcinoma
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_044

TRT#: 3
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
Liver	Bile Duct	Nephropathy
		Focal Cellular Change
Spleen	Tubule	Hyperplasia, Nos
		Neoplastic Nodule
Testis	Tubule	Hematopoiesis
		Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_045

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland

Heart

Intestine Small

Kidney

Myocardium Nos

Peyers Patch

Pelvis

Pheochromocytoma

Degeneration, Nos

Hyperplasia, Nos

Inflammation, Nos

Necrosis, Medullary

Nephropathy

Liver

Bile Duct

Bile Duct

Hyperplasia, Nos

Inflammation, Nos

Pituitary gland

Adenoma, Nos

Prostate

Hyperplasia, Epithelial

Spleen

Hematopoiesis

Stomach

Hyperkeratosis

Testis

Hyperplasia, Epithelial

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_046

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
Pituitary gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
Unspecified		Fibroma
	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_047

TRT#: 3

DOSE: 0

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST:

HISTO:

OBSERVATIONS

Brain

Kidney

Liver

Pituitary gland

Testis

Hydrocephalus, Nos

Fibrosis, Diffuse

Mineralization

Nephropathy

Cytoplasmic Change, Basophilic

Adenoma, Nos

Hyperplasia, Interstitial Cell

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_048

TRT#: 3
DOSE: 0

SEX: Male
DISP: Scheduled Sacrifice

DAY ON TEST:
HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Myelomonocytic

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_049

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos Fibrosis
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Nos Necrosis, Ischemic
Parathyroid gland		Adenoma, Nos
Spleen		Hematopoiesis
Testis	Tubule	Atrophy, Focal Interstitial-Cell Tumor
		Mineralization
Unspecified	Multiple Organs Nos	Leukemia, Nos

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: C54604

Test Type: Long-Term

Route: Dosed-Water

Species/Strain: Rat/F344

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: 17:45:17

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3_050

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Hyperplasia, Nos
Prostate		Inflammation, Nos
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
		Mineralization

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****