

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**C Number:** C54955A

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Male

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_001

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

**OBSERVATIONS**

Esophagus		Inflammation, Acute/Chronic
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Lung		Pneumonia, Aspiration
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Cyst, Hemorrhagic

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_002

**TRT#:** 1  
**DOSE:** 300.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Lipoid
	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Nos
	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Focal Cellular Change
Lung		Foreign Material, Nos
Mammary gland		Fibroadenoma
Pancreas	Acinus	Focal Cellular Change
Parathyroid gland		Hyperplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Urinary bladder		Inflammation, Acute Focal
		Inflammation, Acute Necrotizing
		Metaplasia, Squamous

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_003

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Focal Cellular Change
Mammary gland		Adenocarcinoma, Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thymus		Hyperplasia, Epithelial
Thyroid		C-Cell Adenoma
		Cyst, Follicular Nos
		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_004

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Multiple
	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Lung		Inflammation, Interstitial
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Focal
Parathyroid gland		Adenoma, Nos
Skin	Back	Sebaceous Adenoma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_005

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
		Tubular-Cell Adenocarcinoma
Liver		Cytoplasmic Change, Basophilic
Lung		Foreign Material, Nos
Pancreas	Acinus	Atrophy, Focal
	Acinus	Hyperplasia, Focal
Testis		Atrophy, Diffuse
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos
Unspecified	Neck	Fibroadenoma

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_006

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
		Tubular-Cell Adenocarcinoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Dilatation, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Tubular-Cell Adenocarcinoma, Metastatic

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 1\_007

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney

Medulla

Mineralization

Nephropathy

Lung

Foreign Material, Nos

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_008

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lymph node	Mesenteric Lymph Node	Edema, Nos
Pancreas		Acinar-Cell Carcinoma
Parathyroid gland		Adenoma, Nos
		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Preputial gland		Adenocarcinoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 1\_009

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Medulla

Mineralization

Lung

Nephropathy

Stomach

Forestomach

Foreign Material, Nos

Testis

Squamous Cell Papilloma

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_010

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Duodenum	Inflammation, Acute Necrotizing
	Mesentery Nos	Necrosis, Fat
Kidney	Tubule	Hyperplasia, Focal
	Medulla	Mineralization
		Nephropathy
Lung		Inflammation, Acute Focal
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Stomach	Glandular Stomach	Necrosis, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_011

**TRT#:** 1  
**DOSE:** 300.0 MG/KG

**SEX:** Male  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Lipoid
	Medulla	Hyperplasia, Focal
Kidney	Pelvis	Hyperplasia, Epithelial
	Tubule	Hyperplasia, Focal
	Medulla	Mineralization
		Nephropathy
Liver		Tubular-Cell Adenocarcinoma
		Cytoplasmic Change, Basophilic
		Focal Cellular Change
Mammary gland		Fibroadenoma
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Degeneration, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C54955A

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: 1,4-Dichlorobenzene (p-dichlorobenzene)  
CAS Number: 106-46-7

Date Report Requested: 10/26/2014

Time Report Requested: 11:20:53

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_012

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney	Pelvis	Hyperplasia, Epithelial
	Tubule	Hyperplasia, Focal
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Foreign Material, Nos
Pancreas	Acinus	Atrophy, Focal
	Acinus	Focal Cellular Change
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Angiectasis
	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_013

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla Cortex Nos	Hyperplasia, Focal Hyperplasia, Focal Inflammation, Acute Necrotizing
Bone marrow		Hyperplasia, Hematopoietic
Heart	Myocardium Nos Atrium	Degeneration, Nos Thrombus, Organized
Kidney	Cortex Pelvis Medulla	Cyst, Nos Hyperplasia, Epithelial Mineralization Nephropathy Tubular-Cell Adenoma
Liver	Centrilobular Centrilobular	Congestion, Passive Hemosiderosis
Lung		Foreign Material, Nos
Parathyroid gland		Hyperplasia, Nos
Prostate		Cyst, Multiple
Testis		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 1\_014

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Lung		Foreign Material, Nos
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 1\_015

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney

Medulla

Mineralization

Nephropathy

Tubular-Cell Adenocarcinoma

Lung

Foreign Material, Nos

Stomach

Forestomach

Ulcer, Acute

Testis

Hyperplasia, Interstitial Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: C54955A

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: 1,4-Dichlorobenzene (p-dichlorobenzene)  
CAS Number: 106-46-7

Date Report Requested: 10/26/2014

Time Report Requested: 11:20:53

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_016

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Natural Death

HISTO:

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
	Anterior Chamber	Inflammation, Acute Hemorrhagic
	Cornea	Ulcer, Nos
Heart	Myocardium Nos	Degeneration, Nos
		Inflammation, Acute Focal
Kidney	Cortex	Cyst, Nos
	Pelvis	Hyperplasia, Epithelial
	Tubule	Hyperplasia, Focal
		Nephropathy
Lung		Inflammation, Acute Diffuse
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin	Back	Keratoacanthoma
Thyroid	Follicle	Cyst, Multiple
Trachea		Inflammation, Acute Focal
Unspecified	Multiple Organs Nos	Mineralization
Urinary bladder		Inflammation, Acute Diffuse

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_017

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization Nephropathy
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate	Periprostatic Tissue	Inflammation, Granulomatous Focal
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 1\_018

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney	Medulla	Mineralization
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Angiectasis
Prostate		Inflammation, Acute Hemorrhagic
Testis		Interstitial-Cell Tumor
Urinary bladder		Necrosis, Hemorrhagic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 1\_019

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Pancreas	Acinus	Atrophy, Diffuse
	Islets	Islet-Cell Adenoma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Lung		Foreign Material, Nos
Lymph node	Mesenteric Lymph Node	Lymphangiectasis
Pancreas		Acinar-Cell Adenoma
Pituitary gland	Posterior Lobe	Gliosis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_021

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney	Medulla	Mineralization
		Nephropathy
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_022

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Kidney

Medulla

Mineralization

Testis

Nephropathy

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_023

**TRT#:** 1  
**DOSE:** 300.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos Medulla	Degeneration, Lipoid Hyperplasia, Focal Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis Medulla	Hyperplasia, Epithelial Mineralization Nephropathy
Liver		Cytoplasmic Change, Basophilic Focal Cellular Change
Lung		Foreign Material, Nos Pneumonia, Aspiration
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Salivary gland		Inflammation, Chronic Focal
Spleen		Fibroma
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_024

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Angiectasis
Stomach	Mucosa	Inflammation, Acute Focal
	Forestomach	Ulcer, Acute
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_025

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Brain		Necrosis, Hemorrhagic
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Pancreas	Acinus	Focal Cellular Change
	Acinus	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_026

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Nos
	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
Lung		Nephropathy
Mammary gland		Inflammation, Interstitial
Pancreas	Acinus	Hyperplasia, Cystic
Parathyroid gland		Hyperplasia, Focal
Spleen	Red Pulp	Hyperplasia, Nos
Stomach	Glandular Stomach	Fibrosis, Focal
Testis		Ulcer, Acute
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_027

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney	Medulla	Mineralization
		Nephropathy
Lung		Foreign Material, Nos
Parathyroid gland		Hyperplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_028

**TRT#:** 1  
**DOSE:** 300.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Degeneration, Lipoid Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis Medulla	Hyperplasia, Epithelial Mineralization Nephropathy Pyelonephritis, Chronic Tubular-Cell Adenocarcinoma
Liver		Cytoplasmic Change, Basophilic Focal Cellular Change
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus Islets	Atrophy, Focal Islet-Cell Carcinoma
Pituitary gland	Anterior Pituitary Anterior Pituitary	Adenoma, Nos Focal Cellular Change
Spleen	Red Pulp Red Pulp	Fibrosis, Focal Inflammation, Granulomatous Focal
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_029

**TRT#:** 1  
**DOSE:** 300.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Inflammation, Granulomatous Focal
Lung		Inflammation, Interstitial
Pancreas	Acinus	Atrophy, Focal
	Acinus	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Skin		Keratoacanthoma
	Back	Trichoepithelioma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Mediastinum Nos	Inflammation, With Fibrosis

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_030

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_031

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver	Periportal	Cytoplasmic Vacuolization
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Hyperplasia, Epithelial
Spleen	Red Pulp	Fibrosis, Focal
Stomach	Forestomach	Hyperkeratosis
	Forestomach	Hyperplasia, Epithelial
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_032

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
Parathyroid gland		Hyperplasia, Nos
Stomach	Mucosa	Mineralization
Testis		Interstitial-Cell Tumor
Thymus		Hyperplasia, Epithelial
Thyroid		C-Cell Adenoma
		Follicular-Cell Carcinoma
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_033

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Kidney

Cortex Nos  
Medulla

Hyperplasia, Focal  
Mineralization  
Nephropathy

Stomach  
Testis

Glandular Stomach

Necrosis, Focal  
Hyperplasia, Interstitial Cell  
Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_034

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

---

**OBSERVATIONS**

Eye	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Lung		Foreign Material, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_035

**TRT#:** 1  
**DOSE:** 300.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Hyperplasia, Focal
Bone marrow		Hypoplasia, Hematopoietic
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex Pelvis Tubule Medulla	Cyst, Multiple Hyperplasia, Epithelial Hyperplasia, Focal Mineralization Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Foreign Material, Nos
Pancreas	Acinus Acinus	Atrophy, Focal Hyperplasia, Focal
Parathyroid gland		Hyperplasia, Nos
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 1\_036

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Pelvis

Hyperplasia, Epithelial

Medulla

Mineralization

Lymph node

Mandibular Lymph Node

Nephropathy

Testis

Plasmacytosis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_037

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Medulla

Mineralization

Lung

Nephropathy

Testis

Hyperplasia, Alveolar Epithelium

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C54955A

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: 1,4-Dichlorobenzene (p-dichlorobenzene)  
CAS Number: 106-46-7

Date Report Requested: 10/26/2014

Time Report Requested: 11:20:53

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_038

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Kidney	Pelvis	Hyperplasia, Epithelial
	Tubule	Hyperplasia, Focal
	Medulla	Mineralization
Liver		Nephropathy
		Cytoplasmic Change, Basophilic
Pituitary gland	Hepatocytes	Degeneration, Cystic
Preputial gland	Anterior Pituitary	Hyperplasia, Focal
		Dilatation, Nos
		Inflammation, Pyogranulomatous
Skin	Ear	Squamous Cell Papilloma
Stomach	Forestomach	Ulcer, Perforated
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_039

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Kidney

Pelvis

Hyperplasia, Epithelial

Medulla

Mineralization

Liver

Nephropathy

Mammary gland

Focal Cellular Change

Testis

Fibroadenoma

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_040

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Pancreas	Acinus	Atrophy, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_041

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
Lung		Inflammation, Interstitial
Mammary gland		Fibroadenoma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_042

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Bone	Cortex Of Bone	Hyperplasia, Diffuse
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Lung		Hemorrhage
Parathyroid gland		Hyperplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_043

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Tubule	Hyperplasia, Focal
	Medulla	Mineralization
Liver	Hepatocytes	Nephropathy
Lung		Degeneration, Cystic
Parathyroid gland		Foreign Material, Nos
Pituitary gland	Posterior Lobe	Hyperplasia, Nos
Preputial gland		Hyperplasia, Epithelial
Testis		Adenoma, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_044

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Tubular-Cell Adenocarcinoma
Lung		Cytoplasmic Change, Basophilic
Pancreas		Foreign Material, Nos
Parathyroid gland		Acinar-Cell Adenoma
Testis		Hyperplasia, Nos
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell
		Mesothelioma, Malignant

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_045

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
	Cortex	Pigmentation, Nos
Lung		Hyperplasia, Alveolar Epithelium
Lymph node	Mediastinal Lymph Node	Pigmentation, Nos
Spleen	Red Pulp	Hematopoiesis
Testis		Atrophy, Diffuse
		Hyperplasia, Interstitial Cell
Thyroid		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	C-Cell Adenoma
		Mesothelioma, Malignant

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 1\_046

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Cytoplasmic Vacuolization

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Medulla

Mineralization

Testis

Nephropathy

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Cyst, Follicular Nos

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_047

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Tubule	Hyperplasia, Focal
	Medulla	Mineralization
		Nephropathy
Pancreas	Acinus	Hyperplasia, Focal
Preputial gland		Hyperplasia, Diffuse
		Inflammation, Active Chronic
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
		Hyperplasia, Follicular Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: C54955A

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: 1,4-Dichlorobenzene (p-dichlorobenzene)  
CAS Number: 106-46-7

Date Report Requested: 10/26/2014

Time Report Requested: 11:20:53

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 1\_048

TRT#: 1

SEX: Male

DAY ON TEST:

DOSE: 300.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Bone	Cortex Of Bone	Fibrous Osteodystrophy
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Cortex	Cyst, Multiple
	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
		Pyelonephritis, Nos
		Tubular-Cell Adenocarcinoma
Liver		Cytoplasmic Change, Basophilic
Lung		Foreign Material, Nos
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate	Prostatic Urethra	Hyperplasia, Epithelial
Spleen	Red Pulp	Fibrosis, Diffuse
Stomach	Forestomach	Ulcer, Acute
Testis		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 1\_049

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Tubule	Hyperplasia, Focal
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Acinus	Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_050

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
Liver		Nephropathy
		Cytoplasmic Change, Basophilic
		Focal Cellular Change
Pancreas	Acinus	Atrophy, Focal
Testis		Interstitial-Cell Tumor
Thyroid	Follicle	Cyst, Multiple
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_001

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
	Tubule	Necrosis, Focal
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Foreign Material, Nos
Parathyroid gland		Hyperplasia, Nos
Skin		Ulcer, Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_002

**TRT#:** 2  
**DOSE:** 150.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
Liver		Cytoplasmic Change, Basophilic
Lung		Foreign Material, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_003

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart

Myocardium Nos

Degeneration, Nos

Parathyroid gland

Hyperplasia, Nos

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Testis

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_004

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Cytoplasmic Vacuolization
	Hepatocytes	Degeneration, Cystic
Lung		Foreign Material, Nos
Mammary gland		Fibroadenoma
Pancreas		Acinar-Cell Adenoma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_005

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
		Tubular-Cell Adenocarcinoma
Liver	Hepatocytes	Degeneration, Cystic
		Focal Cellular Change
	Hepatocytes	Hyperplasia, Focal
		Neoplastic Nodule
Lung		C-Cell Carcinoma, Metastatic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified		Lipoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_006

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Lung		Foreign Material, Nos
Testis		Hyperplasia, Interstitial Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_007

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Large  
Kidney

Medulla  
Myocardium Nos  
Colon  
Pelvis  
Medulla

Liver  
Testis

Thyroid

Unspecified

Multiple Organs Nos

Pheochromocytoma  
Degeneration, Nos  
Parasitism  
Hyperplasia, Epithelial  
Mineralization  
Nephropathy  
Cytoplasmic Change, Basophilic  
Hyperplasia, Interstitial Cell  
Interstitial-Cell Tumor  
Cyst, Follicular Nos  
Follicular-Cell Carcinoma  
Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_008

**TRT#:** 2  
**DOSE:** 150.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla Medulla	Hyperplasia, Focal Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Cystic
Pancreas		Acinar-Cell Adenoma
	Acinus	Hyperplasia, Focal
Spleen	Red Pulp	Fibrosis, Focal
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_009

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Parathyroid gland		Adenoma, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Pyogranulomatous
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_010

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Angiectasis

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Pelvis

Hyperplasia, Epithelial

Medulla

Mineralization

Liver

Nephropathy

Pancreas

Acinus

Cytoplasmic Change, Basophilic

Testis

Atrophy, Focal

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_011

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Lung		Foreign Material, Nos
Testis		Hyperplasia, Interstitial Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_012

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Focal Cellular Change
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_013

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney	Medulla	Mineralization
Lung		Foreign Material, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_014

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
Lymph node	Mandibular Lymph Node	Lymphoma, Lymphocytic-Malignant Type
Parathyroid gland		Hyperplasia, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_015

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Brain		Granular-Cell Tumor, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Lung		Foreign Material, Nos
		Pneumonia, Aspiration
Pancreas	Acinus	Atrophy, Focal
Stomach	Glandular Stomach	Ulcer, Acute
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_016

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Kidney	Cortex	Cyst, Multiple
	Pelvis	Hyperplasia, Epithelial
	Pelvis	Inflammation, Acute Diffuse
	Medulla	Mineralization
Pancreas		Nephropathy
Parathyroid gland		Acinar-Cell Adenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Stomach	Forestomach	Hyperplasia, Focal
	Forestomach	Hyperplasia, Epithelial
	Forestomach	Ulcer, Perforated
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_017

**TRT#:** 2  
**DOSE:** 150.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Lipoid
	Cortex Nos	Hyperplasia, Focal
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified		Necrosis, Fat

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_018

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Pancreas	Acinus	Hyperplasia, Focal
Skin	Tail	Squamous Cell Papilloma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_019

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Pelvis

Hyperplasia, Epithelial

Medulla

Mineralization

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Pancreas

Acinus

Hyperplasia, Focal

Parathyroid gland

Hyperplasia, Nos

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_020

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization Nephropathy
Liver	Hepatocytes	Cytoplasmic Change, Basophilic Degeneration, Cystic Focal Cellular Change
Lung		Alveolar/Bronchiolar Adenoma
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_021

**TRT#:** 2  
**DOSE:** 150.0 MG/KG

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
Lung		Foreign Material, Nos
		Pneumonia, Aspiration
Pancreas	Acinus	Hyperplasia, Focal
Testis		Atrophy, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

PRIMARY CAUSE OF DEATH

-



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_022

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Ear	Canal	Squamous Cell Carcinoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Inflammation, Interstitial
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_023

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Pancreas	Acinus	Atrophy, Focal
	Acinus	Focal Cellular Change
	Acinus	Hyperplasia, Focal
	Islets	Islet-Cell Adenoma
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_024

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

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**OBSERVATIONS**

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Medulla

Mineralization

Lung

Foreign Material, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_025

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Medulla

Mineralization

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_026

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Lung		Congestion, Acute
Testis		Hyperplasia, Interstitial Cell
Thyroid		Hyperplasia, Follicular Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_027

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Brain	Hypothalamus Nos	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
		Thrombus, Organized
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Neoplastic Nodule
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_028

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Fibrin
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
Liver		Nephropathy
Lymph node		Cytoplasmic Change, Basophilic
Parathyroid gland	Mesenteric Lymph Node	Lymphangiectasis
Pituitary gland		Hyperplasia, Nos
Testis	Anterior Pituitary	Adenoma, Nos
		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Interstitial-Cell Tumor
		Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_029

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Focal Cellular Change
Lung		Inflammation, Interstitial
Pancreas		Acinar-Cell Adenoma
Spleen	Red Pulp	Fibrosis, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_030

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Brain		Necrosis, Hemorrhagic
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
		Tubular-Cell Adenocarcinoma
Parathyroid gland		Hyperplasia, Nos
Skin	Back	Keratoacanthoma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_031

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Lung		Congestion, Acute
Pancreas	Acinus	Atrophy, Focal
	Acinus	Focal Cellular Change
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_032

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Focal Cellular Change
Pancreas		Acinar-Cell Adenoma
Skin	Back	Keratoacanthoma
Spleen		Hemangiosarcoma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_033

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Bone marrow		Fibrosis, Myelo
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_034

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Spleen	Red Pulp	Hematopoiesis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_035

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatic Sinusoid	Dilatation, Nos
Pancreas	Acinus	Atrophy, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_036

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Necrosis, Hemorrhagic
Kidney	Medulla	Mineralization Nephropathy
Stomach	Forestomach	Hemorrhage
Testis		Hyperplasia, Interstitial Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Hemorrhage

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_037

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization Nephropathy Pyelonephritis, Acute
Liver		Cytoplasmic Change, Basophilic
Lung		Liposarcoma, Metastatic
Prostate		Inflammation, Acute Diffuse
Spleen	Red Pulp	Hemosiderosis
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urinary bladder		Inflammation, Acute Focal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_038

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Foreign Material, Nos
Pancreas	Acinus	Atrophy, Focal
	Acinus	Hyperplasia, Focal
Parathyroid gland		Hyperplasia, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_039

**TRT#:** 2  
**DOSE:** 150.0 MG/KG

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

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

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**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Focal Cellular Change
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified		Fibroma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_040

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
	Endocardium Nos	Fibrosis, Multifocal
Kidney	Cortex	Cytoplasmic Aggregate, Nos
	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Preputial gland		Carcinoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_041

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Large  
Kidney

Medulla  
Myocardium Nos  
Colon  
Pelvis  
Medulla

Hyperplasia, Focal  
Degeneration, Nos  
Parasitism  
Hyperplasia, Epithelial  
Mineralization  
Nephropathy  
Cytoplasmic Change, Basophilic  
Dilatation, Nos  
Focal Cellular Change  
Hyperplasia, Nos  
Adenoma, Nos  
Dilatation, Nos  
Interstitial-Cell Tumor  
Follicular-Cell Carcinoma

Liver

Hepatic Sinusoid

Parathyroid gland  
Preputial gland

Testis  
Thyroid

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_042

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver	Hepatic Sinusoid	Dilatation, Nos
		Focal Cellular Change
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Preputial gland		Adenoma, Nos
Salivary gland		Atrophy, Focal
Testis		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_043

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis	Hyperplasia, Epithelial
	Medulla	Mineralization
		Nephropathy
Liver		Focal Cellular Change
Pancreas		Acinar-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 2\_044

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Ulcer, Acute
Kidney	Medulla	Mineralization
		Nephropathy
		Tubular-Cell Adenocarcinoma
Liver		Cytoplasmic Change, Basophilic
Pancreas		Acinar-Cell Adenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Atrophy, Diffuse
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_045

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Pancreas

Acinar-Cell Adenoma

Testis

Periarteritis

Thyroid

Interstitial-Cell Tumor

C-Cell Adenoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_046

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Medulla

Mineralization

Lung

Foreign Material, Nos

Hemorrhage

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_047

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Pelvis

Hyperplasia, Epithelial

Medulla

Mineralization

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Skin

Back

Keratoacanthoma

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_048

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
Lung		Congestion, Acute
Testis		Foreign Material, Nos
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 2\_049

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Small  
Kidney

Medulla  
Myocardium Nos  
Mesentery Nos  
Pelvis  
Tubule  
Medulla

Liver  
Parathyroid gland  
Skin  
Testis

Back

Pheochromocytoma  
Degeneration, Nos  
Necrosis, Fat  
Hyperplasia, Epithelial  
Hyperplasia, Focal  
Mineralization  
Nephropathy  
Cytoplasmic Change, Basophilic  
Hyperplasia, Nos  
Keratoacanthoma  
Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 2\_050

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 150.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos Medulla	Degeneration, Lipoid Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis Medulla	Hyperplasia, Epithelial Mineralization Nephropathy
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 3\_001

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

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**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Liver  
Pituitary gland  
Testis

Medulla  
Myocardium Nos  
  
Anterior Pituitary

Pheochromocytoma  
Degeneration, Nos  
Nephropathy  
Cytoplasmic Change, Basophilic  
Hyperplasia, Focal  
Hyperplasia, Interstitial Cell  
Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 3\_002

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Pituitary gland

Testis

Thyroid

Myocardium Nos

Anterior Pituitary

Cortical Adenoma

Degeneration, Nos

Nephropathy

Cytoplasmic Change, Basophilic

Hyperplasia, Focal

Interstitial-Cell Tumor

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 3\_003

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Brain  
Kidney  
Testis

Cortex Nos

Degeneration, Lipoid  
Hypoplasia, Hematopoietic  
Necrosis, Hemorrhagic  
Nephropathy  
Hyperplasia, Interstitial Cell  
Interstitial-Cell Tumor  
Leukemia, Mononuclear Cell

Unspecified

Multiple Organs Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_004

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Inflammation, Interstitial
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 3\_005

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Acinus	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_006

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
Lung		Perivascular Cuffing
Parathyroid gland		Adenoma, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_007

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Acinus	Hyperplasia, Focal
Skin		Trichoepithelioma
Spleen	Red Pulp	Fibrosis, Focal
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_008

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatic Sinusoid	Dilatation, Nos
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Necrosis, Fat

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_009

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Degeneration, Lipoid
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Focal Cellular Change
		Necrosis, Focal
Lung		Inflammation, Interstitial
Pituitary gland	Anterior Pituitary	Cytomegaly
	Anterior Pituitary	Hyperplasia, Focal
Testis		Atrophy, Nos
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_010

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Brain	Hypothalamus Nos	Atrophy, Pressure
	Hypothalamus Nos	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Hyperplasia, Alveolar Epithelium
Pancreas		Acinar-Cell Adenoma
	Acinus	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_011

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver		Cytoplasmic Change, Basophilic
Pancreas		Acinar-Cell Adenoma
	Acinus	Hyperplasia, Focal
Spleen	Capsule	Mesothelioma, Nos
Testis		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_012

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

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla Medulla	Degeneration, Lipoid Hyperplasia, Focal Pheochromocytoma
Bone	Cervical Vertebra Other Cortex Of Bone Cervical Vertebra Other	Fibrous Osteodystrophy Fibrous Osteodystrophy Osteoma
Heart	Myocardium Nos Atrium	Degeneration, Nos Thrombus, Organized
Kidney	Pelvis	Hyperplasia, Epithelial Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell Hyperplasia, Follicular Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_013

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

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**OBSERVATIONS**

Adrenal gland  
Heart

Cortex Nos  
Myocardium Nos  
Myocardium Nos

Kidney  
Liver

Hyperplasia, Focal  
Degeneration, Nos  
Inflammation, Chronic Focal  
Nephropathy  
Cytoplasmic Change, Basophilic  
Focal Cellular Change  
Atrophy, Diffuse  
Interstitial-Cell Tumor

Testis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_014

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Epididymis		Inflammation, Chronic Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Mammary gland		Cyst, Nos
Pancreas	Acinus	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_015

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

**SEX:** Male  
**DISP:** Natural Death

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cytoplasmic Vacuolization
Bone marrow		Hypoplasia, Hematopoietic
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Necrosis, Fat
Pancreas	Acinus	Atrophy, Diffuse
Testis		Atrophy, Diffuse
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_016

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Focal Cellular Change

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Intrahepatic Bile Duct

Hyperplasia, Nos

Lung

Inflammation, Chronic Focal

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Testis

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_017

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Focal Cellular Change

Cortex Nos

Hyperplasia, Focal

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Pancreas

Acinus

Hyperplasia, Focal

Preputial gland

Inflammation, Active Chronic

Testis

Interstitial-Cell Tumor

Urinary bladder

Polyp, Inflammatory

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_018

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Acinus	Atrophy, Focal
		Periarteritis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_019

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Acinus	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Hyperplasia, Focal
Skin		Sebaceous Adenoma
Testis		Hyperplasia, Interstitial Cell
Thyroid		Interstitial-Cell Tumor C-Cell Carcinoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_020

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Heart	Myocardium Nos	Degeneration, Nos
Liver	Centrilobular	Necrosis, Focal
Lung		Leukocytosis, Nos
Spleen	Red Pulp	Hematopoiesis
Unspecified	Head	Rhabdomyosarcoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C54955A

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: 1,4-Dichlorobenzene (p-dichlorobenzene)  
CAS Number: 106-46-7

Date Report Requested: 10/26/2014

Time Report Requested: 11:20:53

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_021

TRT#: 3  
DOSE: 0

SEX: Male  
DISP: Natural Death

DAY ON TEST:  
HISTO:

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Tubule	Mineralization Pyelonephritis, Acute
Liver		Cytoplasmic Change, Basophilic Necrosis, Focal
Lung		Granuloma, Nos
Mammary gland		Cyst, Nos
Pancreas	Acinus Islets	Atrophy, Focal Islet-Cell Adenoma
Parathyroid gland		Hyperplasia, Nos
Prostate	Prostatic Urethra	Inflammation, Acute Diffuse Inflammation, Suppurative
Spleen	Follicles Red Pulp	Depletion, Lymphoid Hematopoiesis
Testis		Interstitial-Cell Tumor
Urinary bladder		Necrosis, Diffuse

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_022

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Liver		Focal Cellular Change
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Atrophy, Diffuse
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		C-Cell Carcinoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_023

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla Medulla	Hyperplasia, Focal Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Hyperplasia, Alveolar Epithelium
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		Follicular-Cell Adenoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_024

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Skin		Cyst, Epidermal Inclusion
Testis		Atrophy, Diffuse
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_025

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Fibrosis, Focal
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Acinus	Atrophy, Focal
	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_026

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Dosing Accident

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Focal Cellular Change

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Lung

Edema, Nos

Testis

Foreign Material, Nos

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_027

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Granuloma, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos
		Hyperplasia, C Cell
Tongue		Squamous Cell Papilloma
Unspecified	Groin	Inflammation, Granulomatous Focal

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_028

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Posterior Lobe	Hyperplasia, Epithelial
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Groin	Inflammation, Granulomatous Focal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_029

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_030

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

**OBSERVATIONS**

Eye	Retina	Atrophy, Diffuse
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
	Myocardium Nos	Inflammation, Chronic Focal
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Focal Cellular Change
Lung		Inflammation, Chronic Focal
Pancreas	Acinus	Atrophy, Focal
Prostate		Hyperplasia, Epithelial
Testis		Atrophy, Diffuse
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_031

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Neoplastic Nodule
Lung		Inflammation, Interstitial
Spleen	Red Pulp	Fibrosis, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_032

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

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**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Pancreas  
Testis

Medulla  
Myocardium Nos

Hyperplasia, Focal  
Degeneration, Nos  
Nephropathy  
Acinar-Cell Adenoma  
Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_033

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Medulla	Mineralization
		Nephropathy
Liver		Focal Cellular Change
Parathyroid gland		Hyperplasia, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Stomach	Forestomach	Ulcer, Chronic
Testis		Hyperplasia, Interstitial Cell
Thyroid		Cyst, Follicular Nos
Unspecified	Scrotum	Fibrosarcoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_034

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland  
Testis

Cortex Nos

Degeneration, Lipoid  
Hyperplasia, Interstitial Cell  
Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_035

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Pancreas		Periarteritis
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Hyperplasia, Focal
Skin	Back	Squamous Cell Carcinoma
Testis		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos
		Hyperplasia, C Cell
Unspecified	Groin	Inflammation, Granulomatous Focal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 3\_036

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Degeneration, Nos

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_037

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Accidentally Killed

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
Lung		Foreign Material, Nos
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Preputial gland		Dilatation, Nos
Spleen	Red Pulp	Atrophy, Fatty
	Red Pulp	Fibrosis, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Follicular-Cell Carcinoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 11:20:53  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_038

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

**SEX:** Male  
**DISP:** Accidentally Killed

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

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Bone marrow		Hyperplasia, Reticulum Cell
Heart	Myocardium Nos	Degeneration, Nos
	Atrium	Thrombus, Organized
Intestine Small	Mesentery Nos	Necrosis, Fat
Kidney	Medulla	Mineralization
	Tubule	Necrosis, Diffuse
Liver		Cytoplasmic Change, Basophilic
Lung	Pleura Nos	Inflammation, Acute/Chronic
		Sebaceous Adenocarcinoma, Metastatic
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Nos
Skin	Lower Leg	Sebaceous Adenocarcinoma
Spleen	Red Pulp	Hematopoiesis
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_039

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Accidentally Killed

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Congestion, Acute
		Foreign Material, Nos
Mammary gland		Cyst, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 3\_040

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Accidentally Killed

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Lung		Congestion, Acute
		Edema, Nos
Spleen	Follicles	Depletion, Lymphoid
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 3\_041

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Focal Cellular Change
Pancreas	Acinus	Atrophy, Focal
Testis		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos
Unspecified		Lipoma

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 3\_042

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Focal Cellular Change
Mammary gland		Fibroadenoma
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_043

**TRT#:** 3

**DOSE:** 0

**SEX:** Male

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Bone marrow

Spleen

Thyroid

Unspecified

Red Pulp

Chest

Hyperplasia, Hematopoietic

Hematopoiesis

Hyperplasia, Follicular Cell

Fibrosarcoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_044

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Dosing Accident

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Lung		Foreign Material, Nos
Pancreas		Necrosis, Fat
Preputial gland		Dilatation, Nos
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

---

**ANIMAL ID:** 3\_045

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Eye

Medulla

Pheochromocytoma

Retina

Atrophy, Diffuse

Crystalline Lens

Cataract

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Testis

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

C-Cell Adenoma

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

**ANIMAL ID:** 3\_046

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Liver  
Pituitary gland  
Testis

Cortex Nos  
Myocardium Nos  
  
Anterior Pituitary

Hyperplasia, Focal  
Degeneration, Nos  
Nephropathy  
Cytoplasmic Change, Basophilic  
Cytomegaly  
Atrophy, Nos  
Hyperplasia, Interstitial Cell  
Interstitial-Cell Tumor  
Cyst, Follicular Nos  
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_047

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

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**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla Medulla	Hyperplasia, Focal Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Tubular-Cell Adenocarcinoma Cytoplasmic Change, Basophilic Hepatocellular Carcinoma
Preputial gland		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Unspecified	Groin	Inflammation, Granulomatous Focal

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_048

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

**SEX:** Male  
**DISP:** Terminal Sacrifice

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

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**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Lung		Inflammation, Interstitial
Pancreas	Acinus	Atrophy, Focal
	Acinus	Hyperplasia, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Abdomen	Inflammation, Granulomatous Focal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_049

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Atrium

Thrombus, Fibrin

Lung

Inflammation, Interstitial

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Testis

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Unspecified

Chest

C-Cell Adenoma

Neurofibrosarcoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C54955A

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** 1,4-Dichlorobenzene (p-dichlorobenzene)  
**CAS Number:** 106-46-7

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

**Time Report Requested:** 11:20:53

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

**Lab:** NA

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**ANIMAL ID:** 3\_050

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Dosing Accident

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma, Malignant

Esophagus

Inflammation, Acute Diffuse

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Tubule

Mineralization

Nephropathy

Lung

Foreign Material, Nos

Salivary gland

Degeneration, Nos

Testis

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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