

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**C Number:** C55265

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Male

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_001

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Aorta Nos	Mineralization
Epididymis		Hemorrhage
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Interstitial
Prostate		Inflammation, Active Chronic
Seminal vesicle		Retention Fluid
Testis		Hyperplasia, Interstitial Cell
Thyroid		Hyperplasia, C Cell
Urinary bladder		Hemorrhage
		Inflammation, Acute Focal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_002

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney

Liver

Lung

Mammary gland

Bile Duct

Nephropathy

Hyperplasia, Focal

Edema, Nos

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_003

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung	Alveoli	Hemorrhage
Lymph node	Mesenteric Lymph Node	Inflammation, Granulomatous Focal
	Pancreatic Lymph Node	Inflammation, Granulomatous Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Abscess, Nos
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Cyst, Embryonal Duct
		Hyperplasia, C Cell
		Hyperplasia, Follicular Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_004

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Bone marrow

Hyperplasia, Granulocytic

Prostate

Abscess, Nos

Skin

Hair Follicle

Atrophy, Focal

Urinary bladder

Inflammation, Necrotizing

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_005

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Bone marrow

Heart

Kidney

Myocardium Nos

Pelvis/Mucosa

Hyperplasia, Granulocytic

Degeneration, Nos

Hyperplasia, Papillary

Inflammation, Interstitial

Nephropathy

Liver

Bile Duct

Lymph node

Thymic Lymph Node

Hyperplasia, Focal

Plasmacytosis

Prostate

Abscess, Nos

Spleen

Follicles

Depletion, Lymphoid

Testis

Tubule

Atrophy, Pressure

Interstitial-Cell Tumor

Urinary bladder

Inflammation, Acute/Chronic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_006

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
		Papillary Cystadenoma, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_007

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Thymic Lymph Node	Plasmacytosis
Prostate		Inflammation, Active Chronic
Spleen	Follicles	Depletion, Lymphoid
Testis	Tubule	Atrophy, Pressure
		Hemorrhage
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_008

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Edema, Nos
Lymph node	Mandibular Lymph Node	Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Thyroid		Hemorrhage

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_009

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Neoplastic Nodule
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chlorpheniramine maleate  
**CAS Number:** 113-92-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 12:36:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_010

**TRT#:** 1  
**DOSE:** 030.0 MG/KG

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
		Neoplastic Nodule
Mammary gland		Hyperplasia, Cystic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_011

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Blood vessel	Sup.Panc-Duod.Artery	Periarteritis
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
		Neoplastic Nodule
Lung		Inflammation, Granulomatous Focal
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_012

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Lung

Inflammation, Interstitial

Mammary gland

Hyperplasia, Cystic

Preputial gland

Carcinoma, Nos

Testis

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_013

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Small  
Kidney  
Liver

Cortex Nos  
Myocardium Nos  
Mesentery Nos

Pituitary gland  
Testis

Bile Duct  
Anterior Pituitary  
Tubule

Metamorphosis, Fatty  
Degeneration, Nos  
Inflammation, Active Chronic  
Nephropathy  
Clear-Cell Change  
Hyperplasia, Focal  
Adenoma, Nos  
Atrophy, Pressure  
Hyperplasia, Interstitial Cell  
Interstitial-Cell Tumor  
Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_014

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Degeneration, Nos

Liver

Bile Duct

Hyperplasia, Focal

Prostate

Inflammation, Active Chronic

Testis

Tubule

Atrophy, Pressure

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Urinary bladder

Leukemia, Mononuclear Cell

Inflammation, Acute/Chronic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_015

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Metamorphosis, Fatty Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos Nephropathy
Kidney		Cytoplasmic Change, Eosinophilic
Liver	Bile Duct	Hyperplasia, Focal
Lung	Alveoli	Hemorrhage
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Acute Focal
Testis	Tubule	Atrophy, Pressure Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_016

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

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**OBSERVATIONS**

Lung

Testis

Tubule

Aspiration, Foreign Body

Atrophy, Focal

Inflammation, Chronic Focal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_017

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Aspiration, Foreign Body
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Testis		Hyperplasia, Interstitial Cell
Thyroid		Cyst, Embryonal Duct

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_018

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Active Chronic
Skin	Nose	Squamous Cell Papilloma
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_019

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_020

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Dosing Accident

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
		Hematopoiesis
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_021

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood vessel	Sup.Panc-Duod.Artery	Periarteritis
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen	Red Pulp	Hematopoiesis
Testis	Tubule	Atrophy, Pressure
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_022

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Necrosis, Focal
Pituitary gland	Anterior Pituitary	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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_023

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Testis	Tubule	Atrophy, Pressure
		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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 1\_024

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Lung

Alveoli

Hemorrhage

Testis

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 1\_025

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Pancreas	Acinus	Atrophy, Focal
Testis	Tubule	Atrophy, Pressure
		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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 1\_026

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Epididymis		Inflammation, Chronic
Heart	Myocardium Nos	Degeneration, Nos
	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial 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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 1\_027

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Testis	Tubule	Atrophy, Pressure
		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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_028

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hypertrophy, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Testis

Bile Duct

Hyperplasia, Focal

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_029

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_030

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Angiectasis
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Parathyroid gland		Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urinary bladder		Inflammation, Acute Focal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_031

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
	Crystalline Lens	Degeneration, Nos
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_032

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Hepatocytes

Degeneration, Cystic

Bile Duct

Hyperplasia, Focal

Pancreas

Acinus

Atrophy, Focal

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Prostate

Inflammation, Granulomatous Focal

Testis

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_034

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood vessel	Sup.Panc-Duod.Artery	Periarteritis
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urinary bladder	Mucosa	Papilloma, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_035

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Degeneration, Nos

Liver

Bile Duct

Hyperplasia, Focal

Spleen

Red Pulp

Hemosiderosis

Testis

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_036

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Fibrosis, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_037

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hypertrophy, Focal
	Cortex Nos	Metamorphosis, Fatty
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
	Cornea	Inflammation, Chronic Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Epithelial
		Nephropathy
Liver		Clear-Cell Change
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_038

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Thymus

Hemorrhage

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_039

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Preputial gland		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_040

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Bone marrow

Heart

Liver

Lymph node

Testis

Thyroid

Unspecified

Myocardium Nos

Thymic Lymph Node

Tubule

Leg

Hyperplasia, Granulocytic

Degeneration, Nos

Neoplastic Nodule

Angiectasis

Atrophy, Pressure

Interstitial-Cell Tumor

Hyperplasia, C Cell

Neurofibroma

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_041

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Thymic Lymph Node	Angiectasis
Pancreas	Acinus	Atrophy, Focal
		Inflammation, Active Chronic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Thorax	Hemangiosarcoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_042

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Medulla

Cortical Adenoma

Heart

Myocardium Nos

Hyperplasia, Focal

Kidney

Degeneration, Nos

Liver

Bile Duct

Nephropathy

Mammary gland

Hyperplasia, Focal

Pituitary gland

Anterior Pituitary

Hyperplasia, Cystic

Testis

Tubule

Hyperplasia, Focal

Thyroid

Atrophy, Pressure

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_043

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Mineralization
Bone	Occipital Bone	Osteosarcoma
Brain	Cerebellum Nos	Hemorrhage
	Cerebrum	Hydrocephalus, Nos
Heart	Myocardium Nos	Degeneration, Nos
Liver	Bile Duct	Hyperplasia, Focal
	Hepatocytes	Necrosis, Focal
Lung		Inflammation, Interstitial
Pancreas	Islets	Islet-Cell Adenoma
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 1\_044

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Eye

Retina

Atrophy, Focal

Crystalline Lens

Cataract

Heart

Myocardium Nos

Degeneration, Nos

Intestine Small

Mesentery Nos

Inflammation, Granulomatous Focal

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Hepatocytes

Degeneration, Cystic

Bile Duct

Hyperplasia, Focal

Neoplastic Nodule

Testis

Tubule

Atrophy, Pressure

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 1\_045

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Nos
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Tongue	Mucosa	Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_046

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Pancreas

Acinus

Atrophy, Focal

Testis

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Hyperplasia, C Cell

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 1\_047

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Liver

Cortex Nos  
Myocardium Nos

Hyperplasia, Focal  
Degeneration, Nos  
Nephropathy  
Clear-Cell Change  
Cytoplasmic Change, Basophilic  
Hepatocellular Carcinoma  
Hyperplasia, Focal  
Hyperplasia, Cystic  
Atrophy, Focal  
Adenoma, Nos  
Hyperplasia, Interstitial Cell  
Interstitial-Cell Tumor  
Hyperplasia, C Cell

Mammary gland  
Pancreas  
Pituitary gland  
Testis

Bile Duct

Acinus  
Anterior Pituitary

Thyroid

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chlorpheniramine maleate  
**CAS Number:** 113-92-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 12:36:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_048

**TRT#:** 1  
**DOSE:** 030.0 MG/KG

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung	Bronchiole	Hyperplasia, Epithelial
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 1\_049

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Pituitary gland

Anterior Pituitary

Cyst, Nos

Seminal vesicle

Hyperplasia, Epithelial

Testis

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 1\_050

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 030.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Prostate

Inflammation, Active Chronic

Testis

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

Urinary bladder

Hyperplasia, Follicular Cell

Hyperplasia, Epithelial

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_001

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hypertrophy, Focal
Bone	Femur	Osteosclerosis
Bone marrow		Hyperplasia, Granulocytic
Heart	Myocardium Nos	Degeneration, Nos
	Left Atrium Nos	Thrombus, Organized
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 2\_002

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart

Myocardium Nos

Degeneration, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_003

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Ileum, Ileum	Inflammation, Acute Focal
	Ileum, Ileum	Ulcer, Nos
Kidney	Cortex	Cyst, Multiple
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen	Red Pulp	Fibrosis, Multifocal
Stomach	Glandular Stomach	Mineralization
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55265

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chlorpheniramine maleate

CAS Number: 113-92-8

Date Report Requested: 10/26/2014

Time Report Requested: 12:36:22

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_004

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 015.0 MG/KG

DISP: Moribund Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Brain	Cerebellum Nos	Granular-Cell Tumor, Benign
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
Pancreas		Dilatation, Ducts
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Abscess, Nos
Salivary gland		Inflammation, Acute Focal
Spleen	Follicles	Depletion, Lymphoid
Stomach	Forestomach	Hyperplasia, Epithelial
	Forestomach	Inflammation, Active Chronic
	Glandular Stomach	Inflammation, Active Chronic
	Glandular Stomach	Necrosis, Focal
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_005

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
		Congestion, Acute
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Skin	Nose	Squamous Cell Papilloma
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_006

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Pituitary gland

Anterior Pituitary

Cyst, Nos

Testis

Tubule

Atrophy, Pressure

Zymbal gland

Interstitial-Cell Tumor

Carcinoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_007

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Blood vessel	Sup.Panc-Duod.Artery	Periarteritis
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Papillary
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung	Bronchiole	Hyperplasia, Epithelial
	Bronchiole	Inflammation, Chronic Focal
Lymph node	Thymic Lymph Node	Cyst, Multiple
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_008

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Esophagus	Periesophageal Tissue	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Liver	Bile Duct	Hyperplasia, Focal
Lung		Edema, Nos
	Bronchus	Inflammation, Acute/Chronic
Mammary gland		Hyperplasia, Cystic
Thymus		Hemorrhage
Unspecified	Mediastinum Nos	Inflammation, Active Chronic

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_009

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Hyperplasia, Nodular
Pancreas	Acinus	Atrophy, Diffuse
Pituitary gland	Anterior Pituitary	Cyst, Nos
	Anterior Pituitary	Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_010

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Blood vessel

Cortex Nos

Metamorphosis, Fatty

Esophagus

Pulmonary Artery Nos

Inflammation, Acute/Chronic

Heart

Myocardium Nos

Dilatation, Nos

Kidney

Degeneration, Nos

Pituitary gland

Anterior Pituitary

Nephropathy

Spleen

Anterior Pituitary

Adenoma, Nos

Follicles

Cyst, Hemorrhagic

Depletion, Lymphoid

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_011

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure
		Hyperplasia, Interstitial Cell
Thyroid		Interstitial-Cell Tumor
		C-Cell Adenoma
Unspecified	Abdomen	Hyperplasia, C Cell
		Sarcoma, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_012

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Eye

Retina

Atrophy, Focal

Crystalline Lens

Cataract

Cornea

Inflammation, Active Chronic

Heart

Myocardium Nos

Degeneration, Nos

Intestine Small

Jejunum

Adenocarcinoma, Nos

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Mammary gland

Hyperplasia, Cystic

Pancreas

Dilatation, Ducts

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Prostate

Inflammation, Active Chronic

Testis

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_013

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Oligodendroglioma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Skin	Nose	Keratoacanthoma
Testis	Tubule	Atrophy, Pressure
		Hyperplasia, Interstitial Cell
Thyroid		Interstitial-Cell Tumor
Unspecified	Abdomen	Hyperplasia, C Cell
		Fibroma

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_014

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Hyperplasia, Alveolar Epithelium
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_015

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Pituitary gland

Anterior Pituitary

Adenoma, Nos

Testis

Tubule

Atrophy, Focal

Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_016

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Neoplastic Nodule
Lung	Alveoli	Hemorrhage
Parathyroid gland		Adenoma, Nos
Testis	Tubule	Atrophy, Pressure
		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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_017

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Hyperplasia, Epithelial
		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55265

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Chlorpheniramine maleate

CAS Number: 113-92-8

Date Report Requested: 10/26/2014

Time Report Requested: 12:36:22

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_018

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 015.0 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/Mucosa	Hyperplasia, Papillary
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Skin	Foot And Toe Nos	Squamous Cell Papilloma
Testis	Tubule	Atrophy, Pressure
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_019

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Ectopia

Heart

Cortex Nos

Hyperplasia, Focal

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Nephropathy

Clear-Cell Change

Cytoplasmic Change, Basophilic

Pituitary gland

Bile Duct

Hyperplasia, Focal

Testis

Anterior Pituitary

Hyperplasia, Focal

Thyroid

Tubule

Atrophy, Pressure

Interstitial-Cell Tumor

C-Cell Carcinoma

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 2\_020

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_021

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_022

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Esophagus	Periesophageal Tissue	Inflammation, Suppurative
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Edema, Nos
Thymus		Congestion, Acute
Trachea	Peritracheal Tissue	Inflammation, Suppurative
Unspecified	Mediastinum Nos	Inflammation, Suppurative

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chlorpheniramine maleate  
**CAS Number:** 113-92-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 12:36:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_023

**TRT#:** 2  
**DOSE:** 015.0 MG/KG

**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
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Mandibular Lymph Node	Inflammation, Granulomatous Focal
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Follicles	Inflammation, Granulomatous Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_024

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Epididymis		Granuloma, Spermatic
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
		Nephrosis, Hydro
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Adenocarcinoma, Nos
Spleen	Red Pulp	Hemosiderosis
Testis		Interstitial-Cell Tumor
Thyroid		Cyst, Follicular Nos
Urinary bladder		Hyperplasia, Epithelial

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_025

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hematopoiesis

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Tubule

Necrosis, Focal

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Lung

Pneumonia, Interstitial Chronic

Testis

Tubule

Atrophy, Pressure

Interstitial-Cell Tumor

Unspecified

Leg

Osteosarcoma

Multiple Organs Nos

Osteosarcoma, Metastatic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_026

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Heart

Intestine Large

Kidney

Liver

Lymph node

Mammary gland

Pancreas

Pituitary gland

Skin

Testis

Thyroid

Medulla

Myocardium Nos

Endocard/Left Atrium

Colon

Bile Duct

Mandibular Lymph Node

Acinus

Anterior Pituitary

Back

Tubule

Pheochromocytoma

Degeneration, Nos

Inflammation, Chronic Focal

Hyperplasia, Lymphoid

Nephropathy

Cytoplasmic Change, Basophilic

Hyperplasia, Focal

Inflammation, Granulomatous Focal

Inflammation, Chronic Focal

Hyperplasia, Cystic

Atrophy, Focal

Hyperplasia, Focal

Keratoacanthoma

Atrophy, Pressure

Interstitial-Cell Tumor

Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_027

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Parasitism
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Hemosiderosis
Testis	Tubule	Atrophy, Diffuse
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_028

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Groin	Fibroma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55265

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chlorpheniramine maleate

CAS Number: 113-92-8

Date Report Requested: 10/26/2014

Time Report Requested: 12:36:22

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 2\_029

TRT#: 2

SEX: Male

DAY ON TEST:

DOSE: 015.0 MG/KG

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Epididymis		Inflammation, Active Chronic
Eye	Retina	Atrophy, Focal
	Cornea	Inflammation, Active Chronic
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lung	Bronchiole	Hyperplasia, Epithelial
		Pneumonia, Interstitial Chronic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Salivary gland		Dilatation, Ducts
Spleen	Red Pulp	Fibrosis, Focal
Testis	Tubule	Atrophy, Diffuse
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Hyperplasia, Epithelial
		Inflammation, Acute/Chronic
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chlorpheniramine maleate  
**CAS Number:** 113-92-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 12:36:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_030

**TRT#:** 2  
**DOSE:** 015.0 MG/KG

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Hyperplasia, Focal Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal Inflammation, Granulomatous Focal
Mammary gland		Adenocarcinoma, Nos
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_031

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Metamorphosis, Fatty Pheochromocytoma
Kidney		Nephropathy
Liver	Hepatocytes Bile Duct	Degeneration, Cystic Hyperplasia, Focal
Pituitary gland	Anterior Pituitary Anterior Pituitary	Cyst, Multiple Hyperplasia, Focal
Stomach	Glandular Stomach	Ulcer, Acute
Testis	Tubule	Atrophy, Pressure Interstitial-Cell Tumor
Thyroid		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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 2\_032

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Nos
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_033

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Intestine Small

Mesentery Nos

Inflammation, Granulomatous Focal

Kidney

Nephropathy

Liver

Bile Duct

Hyperplasia, Focal

Lung

Inflammation, Granulomatous Focal

Testis

Hyperplasia, Interstitial Cell

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_034

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney	Tubule	Necrosis, Focal
		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung	Alveoli	Hemorrhage
Pancreas	Acinus	Atrophy, Focal
Salivary gland		Dilatation, Ducts
Spleen	Red Pulp	Necrosis, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Zymbal gland		Carcinoma, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_035

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Hypertrophy, Focal
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
		Dilatation, Ducts
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid	Follicle	Cyst, Nos
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_036

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Angiectasis
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_037

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Intestine Large

Mucosa, Colon

Necrosis, Focal

Kidney

Nephropathy

Lung

Edema, Nos

Spleen

Follicles

Depletion, Lymphoid

Testis

Hyperplasia, Interstitial Cell

Tongue

Squamous Cell Papilloma

Unspecified

Multiple Organs Nos

Mineralization

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_038

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_039

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Testis		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_040

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Kidney

Liver

Pituitary gland

Testis

Hepatocytes

Bile Duct

Anterior Pituitary

Tubule

Tubule

Nephropathy

Cytoplasmic Change, Basophilic

Cytoplasmic Vacuolization

Hyperplasia, Focal

Adenoma, Nos

Atrophy, Pressure

Hyperplasia, Interstitial Cell

Interstitial-Cell Tumor

Mineralization

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_041

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Large  
Kidney  
Liver

Cortex Nos  
Myocardium Nos  
Colon

Metamorphosis, Fatty  
Degeneration, Nos  
Parasitism  
Nephropathy  
Angiectasis  
Cytoplasmic Change, Basophilic  
Hyperplasia, Focal  
Inflammation, Granulomatous Focal  
Lymphangiectasis  
Hyperplasia, Focal  
Fibrosis, Multifocal  
Atrophy, Pressure  
Interstitial-Cell Tumor  
Hyperplasia, C Cell  
Leukemia, Mononuclear Cell

Lymph node

Bile Duct  
Renal Lymph Node  
Mesenteric Lymph Node

Pituitary gland

Anterior Pituitary

Spleen

Red Pulp

Testis

Tubule

Thyroid

Unspecified

Multiple Organs Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_042

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_043

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
	Left Atrium Nos	Thrombus, Mural
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
		Dilatation, Ducts
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Abscess, Nos
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Inflammation, Acute/Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_044

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Medulla

Pheochromocytoma

Kidney

Myocardium Nos

Degeneration, Nos

Liver

Nephropathy

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Neoplastic Nodule

Parathyroid gland

Adenoma, Nos

Testis

Tubule

Atrophy, Pressure

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_045

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Cortex Nos

Metamorphosis, Fatty  
Nephropathy  
Cytoplasmic Change, Basophilic  
Hyperplasia, Focal  
Inflammation, Granulomatous Focal

Lung  
Mammary gland  
Testis

Bile Duct

Hyperplasia, Cystic  
Atrophy, Pressure  
Hyperplasia, Interstitial Cell  
Interstitial-Cell Tumor

Tubule

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chlorpheniramine maleate  
**CAS Number:** 113-92-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 12:36:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_046

**TRT#:** 2  
**DOSE:** 015.0 MG/KG

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla Cortex Nos	Hyperplasia, Focal Hyperplasia, Focal Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Cyst, Nos
Testis	Tubule	Atrophy, Pressure Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_047

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Bone

Femur

Osteosclerosis

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Testis

Bile Duct

Hyperplasia, Focal

Tubule

Atrophy, Pressure

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_048

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
	Anterior Pituitary	Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 2\_049

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Hyperplasia, Focal

Medulla

Pheochromocytoma, Malignant

Heart

Myocardium Nos

Degeneration, Nos

Intestine Large

Colon

Hyperplasia, Lymphoid

Kidney

Nephropathy

Liver

Clear-Cell Change

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Mammary gland

Hyperplasia, Cystic

Prostate

Inflammation, Active Chronic

Testis

Tubule

Atrophy, Pressure

Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 2\_050

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 015.0 MG/KG

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Hepatocytes

Degeneration, Cystic

Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Focal

Lymph node

Mesenteric Lymph Node

Angiectasis

Preputial gland

Inflammation, Active Chronic

Testis

Tubule

Atrophy, Pressure

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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_001

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Pneumonia, Interstitial Chronic
Testis	Tubule	Atrophy, Focal
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Leg	Fibroma
	Mediastinum Nos	Inflammation, Active Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chlorpheniramine maleate  
**CAS Number:** 113-92-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 12:36:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_002

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

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

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

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Intestine Large	Colon	Hyperplasia, Lymphoid
Intestine Small	Jejunum	Hyperplasia, Lymphoid
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis	Tubule	Atrophy, Focal
	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_003

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Reticulum Cell
Brain	Cerebrum	Mineralization
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Skin	Ear	Squamous Cell Papilloma
Testis	Tubule	Atrophy, Pressure
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid	Follicle	Hyperplasia, Cystic
Unspecified	Abdomen	Fibroma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_004

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Mineralization
		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Pneumonia, Interstitial Chronic
Lymph node	Mesenteric Lymph Node	Inflammation, Active Chronic
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Spleen	Red Pulp	Infarct, Healed
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Metaplasia, Squamous
Urinary bladder		Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_005

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Epididymis		Inflammation, Acute
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Mesenteric Lymph Node	Angiectasis
	Mesenteric Lymph Node	Inflammation, Active Chronic
Parathyroid gland		Hyperplasia, Diffuse
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis	Tubule	Atrophy, Focal
		Hyperplasia, Interstitial Cell
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265  
**Test Type:** Long-Term  
**Route:** Gavage  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chlorpheniramine maleate  
**CAS Number:** 113-92-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 12:36:22  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_006

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

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

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

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Degeneration, Nos
	Left Atrium Nos	Thrombus, Organized
Kidney	Cortex	Cyst, Nos
		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Pancreas	Acinus	Atrophy, Focal
	Islets	Hyperplasia, Focal
Spleen	Red Pulp	Congestion, Nos
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_007

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Brain	Cerebrum	Atrophy, Pressure
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Edema, Nos
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Abscess, Nos
Spleen	Follicles	Depletion, Lymphoid
	Red Pulp	Hemosiderosis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

**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	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Cyst, Nos
Pancreas	Acinus	Atrophy, Focal
Prostate		Inflammation, Active Chronic
Spleen	Red Pulp	Fibrosis, Multifocal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_009

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Neoplastic Nodule
Lung		Hyperplasia, Alveolar Epithelium
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Spleen	Red Pulp	Fibrosis, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_010

**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
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Skin	Dermis	Fibrosis, Focal
	Sebaceous Gland	Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_011

**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
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Angiectasis
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_012

**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
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Fibroadenoma
		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Preputial gland		Adenoma, Nos
Spleen	Red Pulp	Fibrosis, Multifocal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_013

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lymph node	Mesenteric Lymph Node	Cyst, Nos
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_014

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Degeneration, Nos Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Pneumonia, Interstitial Chronic
Lymph node	Axillary Lymph Node Mandibular Lymph Node Thymic Lymph Node	C-Cell Carcinoma, Metastatic Inflammation, Chronic Focal Inflammation, Chronic Focal
Mammary gland		Hyperplasia, Cystic
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma Cyst, Embryonal Duct Cyst, Follicular Nos
Unspecified	Multiple Organs Nos	Mineralization

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_015

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Hemorrhage
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Active Chronic
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_016

**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
	Bile Duct	Hyperplasia, Focal
Lung	Alveoli	Hemorrhage
		Inflammation, Granulomatous Focal
Pancreas	Acinus	Atrophy, Focal
Skin	Hip	Squamous Cell Papilloma
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

**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:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney  
Unspecified

Tubule  
Neck  
Neck

Pigmentation, Nos  
Abscess, Chronic  
Squamous Cell Carcinoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_018

**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		Clear-Cell Change
	Bile Duct	Hyperplasia, Focal
		Neoplastic Nodule
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
	Islets	Islet-Cell Carcinoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis	Tubule	Atrophy, Pressure
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Groin	Hemangioma
	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Calculus, Microscopic Examination

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_019

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland	Cortex Nos Medulla	Metamorphosis, Fatty Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Inflammation, Chronic Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
	Tunica Vaginalis	Mesothelioma, Nos
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55265

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Chlorpheniramine maleate

CAS Number: 113-92-8

Date Report Requested: 10/26/2014

Time Report Requested: 12:36:22

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_020

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal
	Islets	Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_021

**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	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Stomach	Glandular Stomach	Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_022

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_023

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Brain

Cerebellum Nos

Hemorrhage

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Mammary gland

Hyperplasia, Cystic

Testis

Tubule

Atrophy, Pressure

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor  
Leukemia, Mononuclear Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: C55265

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chlorpheniramine maleate

CAS Number: 113-92-8

Date Report Requested: 10/26/2014

Time Report Requested: 12:36:22

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_024

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
	Right Atrium Nos	Dilatation, Nos
	Left Atrium Nos	Mineralization
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Prostate		Inflammation, Active Chronic
Spleen	Red Pulp	Fibrosis, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_025

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos Cortex Nos Medulla	Hyperplasia, Focal Metamorphosis, Fatty Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal Neoplastic Nodule
Pituitary gland	Anterior Pituitary Anterior Pituitary	Adenoma, Nos Cyst, Hemorrhagic
Skin	Tail	Keratoacanthoma
Testis	Tubule	Atrophy, Pressure Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

**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:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Pancreas

Acinus

Atrophy, Focal

Testis

Tubule

Atrophy, Pressure

Hyperplasia, Interstitial Cell

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_027

**TRT#:** 3

**DOSE:** 0

**SEX:** Male

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lung		Pneumonia, Interstitial Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_028

**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		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		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: C55265

Test Type: Long-Term

Route: Gavage

Species/Strain: Rat/F344

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chlorpheniramine maleate

CAS Number: 113-92-8

Date Report Requested: 10/26/2014

Time Report Requested: 12:36:22

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 3\_029

TRT#: 3

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Terminal Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
	Left Atrium Nos	Thrombus, Organized
Intestine Large	Colon	Parasitism
Intestine Small	Mesentery Nos	Inflammation, Active Chronic
Kidney	Cortex	Cyst, Multiple
	Pelvis/Mucosa	Hyperplasia, Papillary
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
		Inflammation, Granulomatous Focal
Lymph node	Mesenteric Lymph Node	Angiectasis
	Mesenteric Lymph Node	Inflammation, Chronic Focal
Pancreas	Acinus	Atrophy, Focal
Prostate		Abscess, Nos
Spleen	Red Pulp	Fibrosis, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_030

**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
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Skin	Lip Nos	Squamous Cell Papilloma
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
	Tubule	Mineralization
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_031

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Medulla

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Hepatocytes

Degeneration, Cystic

Bile Duct

Hyperplasia, Focal

Pituitary gland

Anterior Pituitary

Hyperplasia, Focal

Testis

Tubule

Atrophy, Pressure

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_032

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Intestine Small	Mesentery Nos	Inflammation, Granulomatous Focal
Kidney		Nephropathy
	Tubule	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Preputial gland		Inflammation, Active Chronic
Prostate		Inflammation, Active Chronic
Spleen	Red Pulp	Hemangioma
Testis	Tubule	Atrophy, Pressure
		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

**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	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

---

**ANIMAL ID:** 3\_034

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Edema, Nos
Lymph node	Mesenteric Lymph Node	Inflammation, Chronic Focal
Testis		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

**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

Pheochromocytoma

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Nephropathy

Liver

Cytoplasmic Change, Basophilic

Bile Duct

Hyperplasia, Focal

Testis

Tubule

Neoplastic Nodule

Atrophy, Focal

Thyroid

Interstitial-Cell Tumor

Unspecified

Tail

Hyperplasia, C Cell

Fibrosarcoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_036

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney

Medulla  
Myocardium Nos

Pheochromocytoma  
Degeneration, Nos  
Nephropathy

Liver  
Pancreas  
Pituitary gland  
Stomach  
Testis

Tubule  
Bile Duct  
Islets  
Anterior Pituitary  
Glandular Stomach  
Tubule

Pigmentation, Nos  
Hyperplasia, Focal  
Islet-Cell Adenoma  
Cyst, Hemorrhagic  
Necrosis, Focal  
Atrophy, Pressure  
Interstitial-Cell Tumor  
C-Cell Adenoma  
Leukemia, Mononuclear Cell

Thyroid  
Unspecified

Multiple Organs Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_037

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver	Hepatocytes	Cytoplasmic Vacuolization
	Bile Duct	Hyperplasia, Focal
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Stomach	Forestomach	Inflammation, Active Chronic
	Glandular Stomach	Inflammation, Chronic Focal
	Forestomach	Ulcer, Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_038

**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

Clear-Cell Change

Bile Duct

Hyperplasia, Focal

Pancreas

Acinus

Atrophy, Focal

Prostate

Inflammation, Active Chronic

Testis

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Follicle

C-Cell Adenoma

Hyperplasia, Cystic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_039

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Hyperplasia, Focal
	Medulla	Pheochromocytoma
Heart	Myocardium Nos	Degeneration, Nos
	Left Atrium Nos	Mineralization
	Left Atrium Nos	Thrombus, Organized
Kidney	Pelvis/Mucosa	Hyperplasia, Papillary
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Skin	Chest	Trichoepithelioma
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thymus		Thymoma, Benign
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_040

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Kidney		Nephropathy
Liver	Bile Duct	Hyperplasia, Focal
Lung		Inflammation, Granulomatous Focal
Mammary gland		Hyperplasia, Cystic
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland	Anterior Pituitary	Adenoma, Nos
	Anterior Pituitary	Cyst, Multiple
Prostate		Inflammation, Active Chronic
Testis		Hyperplasia, Interstitial Cell
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_041

**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

Bile Duct

Hyperplasia, Focal

Inflammation, Granulomatous Focal

Lung

Alveoli

Hemorrhage

Prostate

Inflammation, Active Chronic

Testis

Tubule

Atrophy, Pressure

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_042

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Accessory Structure

Heart

Medulla

Pheochromocytoma

Kidney

Myocardium Nos

Degeneration, Nos

Pelvis/Mucosa

Hyperplasia, Papillary

Liver

Nephropathy

Cytoplasmic Change, Basophilic

Pancreas

Bile Duct

Hyperplasia, Focal

Testis

Acinus

Atrophy, Focal

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_043

**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
Liver		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mandibular Lymph Node	Hyperplasia, Lymphoid
Pancreas	Acinus	Atrophy, Focal
	Islets	Islet-Cell Carcinoma
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Cyst, Embryonal Duct
		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_044

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Terminal Sacrifice

**HISTO:**

**OBSERVATIONS**

Brain	Cerebrum	Granular-Cell Tumor, Benign
Eye	Retina	Atrophy, Focal
	Crystalline Lens	Cataract
Heart	Myocardium Nos	Degeneration, Nos
Kidney	Pelvis/Mucosa	Hyperplasia, Papillary
		Nephropathy
Liver		Cytoplasmic Change, Basophilic
	Bile Duct	Hyperplasia, Focal
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Hyperplasia, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

**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
Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Liver		Clear-Cell Change
		Cytoplasmic Change, Basophilic
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Salivary gland		Atrophy, Focal
Stomach	Glandular Stomach	Inflammation, Active Chronic
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

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**ANIMAL ID:** 3\_046

**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

Pelvis/Mucosa

Hyperplasia, Papillary

Nephropathy

Liver

Hepatocytes

Degeneration, Cystic

Bile Duct

Hyperplasia, Focal

Pancreas

Acinus

Atrophy, Focal

Testis

Tubule

Atrophy, Pressure

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Leukemia, Mononuclear Cell

Urinary bladder

Hyperplasia, Epithelial

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_047

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Metamorphosis, Fatty
Brain	Cerebrum	Hemorrhage
Kidney	Pelvis/Mucosa	Hyperplasia, Papillary Nephropathy
Liver	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Lymph node	Mesenteric Lymph Node	Cyst, Multiple
Mammary gland		Hyperplasia, Cystic
Testis	Tubule	Atrophy, Pressure Hyperplasia, Interstitial Cell Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell
Urinary bladder		Hemorrhage

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

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

**Lab:** NA

**ANIMAL ID:** 3\_048

**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
	Hepatocytes	Degeneration, Cystic
	Bile Duct	Hyperplasia, Focal
Pancreas		Acinar-Cell Adenoma
	Acinus	Atrophy, Focal
Pituitary gland	Anterior Pituitary	Adenoma, Nos
Salivary gland		Atrophy, Focal
Testis	Tubule	Atrophy, Pressure
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Leukemia, Mononuclear Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

**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:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Degeneration, Nos
Kidney		Nephropathy
Testis		Hyperplasia, Interstitial 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:** C55265

**Test Type:** Long-Term

**Route:** Gavage

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chlorpheniramine maleate

**CAS Number:** 113-92-8

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

**Time Report Requested:** 12:36:22

**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:** Terminal Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Degeneration, Nos

Kidney

Transitional-Cell Carcinoma

Liver

Cytoplasmic Change, Basophilic

Testis

Tubule

Atrophy, Pressure

Thyroid

Interstitial-Cell Tumor

Unspecified

Follicular-Cell Carcinoma

Multiple Organs Nos

Hyperplasia, Focal

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**PRIMARY CAUSE OF DEATH**

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