

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

<b>C Number:</b>	C00180
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Male

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_121

**TRT#:** 1  
**DOSE:** 0

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

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

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Angiectasis
	Bile Duct	Fibrosis
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Pituitary gland		Cyst, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
Urinary bladder		Hyperplasia, Epithelial
		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_122

**TRT#:** 1  
**DOSE:** 0

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

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

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hemorrhage
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Pituitary gland		Chromophobe Adenoma
Testis		Atrophy, Nos

PRIMARY CAUSE OF DEATH

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_123

**TRT#:** 1  
**DOSE:** 0

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

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

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Fibrosis
	Bile Duct	Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
		Inflammation, Nos
		Neoplastic Nodule
Pituitary gland		Angiectasis
		Chromophobe Adenoma

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_124

**TRT#:** 1  
**DOSE:** 0

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

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

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**OBSERVATIONS**

Heart

Fibroma

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_125

**TRT#:** 1  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland		Cortical Carcinoma
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Inflammation, Nos
Pancreas		Periarteritis
Parathyroid gland		Hyperplasia, Nos
Stomach	Mucosa	Calcification, Dystrophic
		Necrosis, Focal
Testis		Atrophy, Nos
		Degeneration, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_126

**TRT#:** 1  
**DOSE:** 0

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

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

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Focal
Kidney		Inflammation, Chronic
Liver		Angiectasis
		Hepatocytomegaly
	Bile Duct	Inflammation, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Testis		Atrophy, Nos
Thyroid		Follicular-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_127

**TRT#:** 1  
**DOSE:** 0

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

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

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Angiectasis
		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
Pancreas		Atrophy, Nos
Pituitary gland	Acinus	Angiectasis
Testis		Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_128

**TRT#:** 1  
**DOSE:** 0

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

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

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**OBSERVATIONS**

Liver	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_129

**TRT#:** 1  
**DOSE:** 0

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

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

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**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Liver  
Pituitary gland

Cortex Nos  
Myocardium Nos

Cytomegaly  
Fibrosis  
Inflammation, Chronic  
Angiectasis  
Angiectasis  
Chromophobe Adenoma  
Atrophy, Nos  
Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 1\_130

**TRT#:** 1  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Bile Duct  
Bile Duct

Salivary gland  
Spleen  
Stomach  
Testis

Pheochromocytoma  
Inflammation, Chronic  
Hepatocytomegaly  
Hyperplasia, Nos  
Inflammation, Nos  
Dilatation, Ducts  
Hemosiderosis  
Ulcer, Nos  
Atrophy, Nos

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_001

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
		Metamorphosis, Fatty
Liver		Hepatocytomegaly
Testis		Atrophy, Nos
Thyroid		C-Cell Adenoma
		Follicular-Cell Adenoma

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_003

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Fibrosis
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
Testis		Atrophy, Nos
Thyroid		Cystic Follicles

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**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_004

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Dilatation, Nos Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos Metamorphosis, Fatty
Lung		Alveolar Macrophages Inflammation, Nos
Pituitary gland		Chromophobe Adenoma Cyst, Nos
Prostate		Inflammation, Suppurative Metaplasia, Squamous
Thyroid		Follicular-Cell Carcinoma

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_006

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Testis		Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_007

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Liver

Bile Duct  
Bile Duct

Hyperplasia, Nos  
Inflammation, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_008

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver	Bile Duct	Congestion, Nos Fibrosis Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_009

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
Lung		Alveolar Macrophages
		Emphysema, Nos
		Inflammation, Nos
Testis		Atrophy, Nos
Thyroid		Cystic Follicles

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_010

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Kidney  
Mammary gland

Pancreas

Acinus

Pituitary gland

Testis  
Thyroid

Inflammation, Chronic  
Fibroma  
Papillary Adenocarcinoma  
Atrophy, Nos  
Fibrosis  
Angiectasis  
Chromophobe Adenoma  
Atrophy, Nos  
Follicular-Cell Adenoma  
Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_011

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cytomegaly
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Neoplastic Nodule
Lung		Alveolar Macrophages
Pituitary gland		Chromophobe Adenoma
Testis		Atrophy, Focal
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_012

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		C-Cell Carcinoma, Metastatic
Testis		Atrophy, Nos
Thyroid		C-Cell Carcinoma

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_013

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Kidney	Inflammation, Chronic
Lung	Alveolar Macrophages
Testis	Atrophy, Nos
Thyroid	Follicular-Cell Adenoma
Unspecified	Hyperplasia, C Cell
	Leiomyoma

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_014

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Fibrosis
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Testis		Atrophy, Nos
Thyroid		Hyperplasia, Follicular Cell

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**PRIMARY CAUSE OF DEATH** -

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_015

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Liver

Bile Duct

Inflammation, Nos

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 2\_016

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Lung		Alveolar Macrophages
Pituitary gland		Chromophobe Adenoma
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_017

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Congestion, Nos
		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hyperemia
Thyroid		Follicular-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_018

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages Inflammation, Focal
Spleen		Congestion, Nos Inflammation, Chronic
Testis		Atrophy, Nos
Unspecified		Fibrosarcoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_019

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Congestion, Nos
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Pancreas	Islets	Islet-Cell Adenoma
Testis		Atrophy, Nos
Urinary bladder		Hyperplasia, Epithelial

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_020

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Liver	Hepatocytomegaly
Pituitary gland	Chromophobe Adenoma
Thyroid	Follicular-Cell Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_022

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_023

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Lung  
Testis

Cortex Nos

Cytomegaly  
Inflammation, Chronic  
Alveolar Macrophages  
Atrophy, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_024

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Heart  
Kidney  
Liver  
Parathyroid gland  
Pituitary gland  
Spleen

Myocardium Nos

Fibrosis  
Inflammation, Chronic  
Hepatocytomegaly  
Hyperplasia, Nos  
Cyst, Nos  
Congestion, Nos  
Hematopoiesis  
Hyperplasia, Lymphoid  
Atrophy, Nos

Testis

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_025

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Thyroid		C-Cell Carcinoma
		Follicular-Cell Carcinoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_026

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Alveolar/Bronchiolar Adenoma
Mammary gland		Lipoma

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_027

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Heart  
Intestine Small

Myocardium Nos  
Ileum  
Ileum

Kidney  
Liver  
Spleen  
Thyroid

Bile Duct

Urinary bladder

Fibrosis  
Hemorrhage  
Inflammation, Nos  
Inflammation, Chronic  
Inflammation, Nos  
Hematopoiesis  
Cystic Follicles  
Hyperplasia, Follicular Cell  
Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_029

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
Testis		Atrophy, Nos
Thyroid		C-Cell Adenoma Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_030

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland  
Heart  
Kidney  
Liver  
Lung  
Testis  
Unspecified

Cortex Nos  
Myocardium Nos

Cytomegaly  
Fibrosis  
Inflammation, Chronic  
Hepatocytomegaly  
Alveolar Macrophages  
Atrophy, Nos  
Fibrous Histiocytoma, Malignant  
Necrosis, Fat

Abdominal Cavity

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_031

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Dilatation, Nos Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_033

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Pancreas		Fibrosis
	Islets	Islet-Cell Adenoma
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_034

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Pituitary gland		Hyperplasia, Chromophobe Cell
Testis		Atrophy, Nos

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_035

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Liver	Angiectasis
	Hepatocytomegaly
Testis	Atrophy, Nos
Thyroid	Follicular-Cell Adenoma
	Follicular-Cell Carcinoma
Urinary bladder	Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_036

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
Mammary gland		Fibroma
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_037

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos Inflammation, Nos
Lung	Bile Duct	Alveolar Macrophages
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_038

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Fibrosis
	Bile Duct	Hyperplasia, Nos
		Neoplastic Nodule
Mammary gland		Fibroma
Pancreas		Fibrosis
Testis		Atrophy, Nos
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_040

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Adrenal gland  
Liver  
  
Testis  
Trachea

Cortex Nos  
Bile Duct  
Bile Duct

Cytomegaly  
Hyperplasia, Nos  
Inflammation, Nos  
Atrophy, Nos  
Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_041

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Angiectasis
		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Pancreas		Fibrosis
Pituitary gland		Chromophobe Adenoma
Testis		Atrophy, Nos
Thyroid		C-Cell Carcinoma

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_042

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Testis	Atrophy, Nos
Thyroid	Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_043

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Interstitial
Kidney	Pelvis	Hyperplasia, Epithelial
		Inflammation, Chronic
Liver	Bile Duct	Inflammation, Nos
Lymph node	Cervical Lymph Node Nos	Dilatation, Nos
Testis		Atrophy, Nos
Thyroid		C-Cell Adenoma
Urinary bladder		Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_044

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_045

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_046

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

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**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Angiectasis
		Hepatocytomegaly
	Bile Duct	Inflammation, Nos
Pancreas		Fibrosis
Testis		Atrophy, Nos

---

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_047

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Bone	Cortex Of Bone	Fibrosis Osteoporosis
Heart	Myocardium Nos Myocardium Nos	Calcification, Nos Fibrosis
Intestine Small	Mesentery Nos	Periarteritis
Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly Hyperplasia, Nos
Pancreas	Bile Duct	Periarteritis
Parathyroid gland		Hyperplasia, Nos
Peritoneum		Inflammation, Nos
Stomach	Mucosa	Calcification, Nos
Testis		Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 2\_048

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

---

**OBSERVATIONS**

Kidney  
Liver

Inflammation, Chronic  
Angiectasis  
Hepatocytomegaly  
Neoplastic Nodule  
Atrophy, Nos

Testis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 2\_049

**TRT#:** 2  
**DOSE:** 80 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cytomegaly
Kidney		Inflammation, Chronic
Liver	Bile Duct	Bile Duct Carcinoma
		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Lymph node	Cervical Lymph Node Nos	Hyperplasia, Lymphoid
Spleen		Inflammation, Chronic
Testis		Atrophy, Nos
Thyroid		Follicular-Cell Adenoma
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_051

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cytomegaly
Kidney		Inflammation, Chronic
Liver		Neoplastic Nodule
Lung		Alveolar Macrophages
Spleen		Inflammation, Granulomatous Focal
Testis		Atrophy, Nos
Thyroid		Follicular-Cell Adenoma

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_053

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Cytomegaly
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
		Inflammation, Chronic
Pituitary gland		Chromophobe Adenoma
Prostate		Inflammation, Suppurative
Spleen		Hemosiderosis
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-



**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_054

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney	Pelvis	Hyperplasia, Epithelial
		Inflammation, Chronic
Liver		Neoplastic Nodule
Pancreas		Periarteritis
Testis		Atrophy, Nos
Thyroid		Cyst, Ultimobranchial
		Follicular-Cell Adenoma
		Hyperplasia, C Cell

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:11  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_055

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Fibrosis
		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
Lung		Alveolar Macrophages
Pituitary gland		Chromophobe Adenoma
Testis		Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_057

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Heart  
Kidney  
Testis

Myocardium Nos

Fibrosis  
Inflammation, Chronic  
Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_058

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Adrenal gland		Cortical Adenoma
Kidney		Inflammation, Chronic
Liver		Angiectasis
		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
Lung		Alveolar Macrophages
		Edema, Nos
Pancreas	Acinus	Atrophy, Nos
		Fibrosis
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Prostate		Inflammation, Nos
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_059

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

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**OBSERVATIONS**

Lung Alveolar Macrophages

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_060

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_061

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver		Hepatocytomegaly
Thyroid		Follicular-Cell Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_062

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cytomegaly
Kidney		Inflammation, Chronic
Liver	Bile Duct	Fibrosis
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_063

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Liver	Hepatocytomegaly
Bile Duct	Hyperplasia, Nos

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_064

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Angiectasis
Prostate		Inflammation, Suppurative
Salivary gland		Carcinoma, Nos
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_065

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Cortex Nos

Cytomegaly  
Inflammation, Chronic  
Angiectasis

Bile Duct  
Bile Duct

Hyperplasia, Nos  
Inflammation, Nos  
Alveolar Macrophages  
Chromophobe Adenoma  
Congestion, Nos

Lung  
Pituitary gland

Cyst, Nos  
Atrophy, Nos  
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_067

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver  
Lung  
Pituitary gland  
Testis  
Thyroid  
Urinary bladder

Cortex Nos

Cytomegaly  
Inflammation, Chronic  
Neoplastic Nodule  
Alveolar Macrophages  
Chromophobe Adenoma  
Atrophy, Nos  
Hemorrhage  
Hyperplasia, Epithelial

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_068

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Angiectasis
		Hepatocytomegaly
Pancreas	Acinus	Atrophy, Nos
		Fibrosis
Testis		Atrophy, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_069

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
		Metamorphosis, Fatty
Pancreas	Islets	Hyperplasia, Nos
Testis		Atrophy, Nos
		Periarteritis
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_070

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Cortex Nos

Cytomegaly  
Inflammation, Chronic  
Angiectasis  
Hepatocytomegaly

Bile Duct  
Bile Duct

Hyperplasia, Nos  
Inflammation, Nos  
Metamorphosis, Fatty  
Neoplastic Nodule

Pancreas  
Spleen  
Testis  
Thyroid

Islets

Islet-Cell Adenoma  
Hemosiderosis  
Atrophy, Nos  
Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_071

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

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**OBSERVATIONS**

Kidney

Inflammation, Chronic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_072

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Inflammation, Nos
Pituitary gland		Cyst, Nos
Prostate		Inflammation, Acute
Testis		Atrophy, Nos
Thyroid		Cystic Follicles

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_073

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

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**OBSERVATIONS**

Heart  
Liver

Myocardium Nos  
Bile Duct

Fibrosis  
Inflammation, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_074

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Adrenal gland	Cortex Nos	Cytomegaly
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Fibrosis
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_076

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Inflammation, Nos
Spleen		Hemosiderosis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_077

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

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**OBSERVATIONS**

Intestine Small  
Kidney  
Liver

Mesentery Nos

Bile Duct  
Bile Duct

Pancreas  
Testis  
Thyroid

Periarteritis  
Inflammation, Chronic  
Hyperplasia, Nos  
Inflammation, Nos  
Periarteritis  
Atrophy, Nos  
Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 3\_078

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

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**OBSERVATIONS**

Kidney	Inflammation, Chronic
Lung	Alveolar Macrophages
Testis	Atrophy, Nos
Thyroid	Cystic Follicles

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_079

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Cortex Nos  
  
Bile Duct

Cytomegaly  
Inflammation, Chronic  
Fibrosis  
Hepatocytomegaly  
Hyperplasia, Nos  
Inflammation, Nos  
Atrophy, Nos

Testis

Bile Duct  
Bile Duct

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_080

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Intestine Small	Mesentery Nos	Periarteritis
Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver		Hepatocytomegaly
Stomach	Mucosa	Calcification, Nos
Testis		Atrophy, Nos

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_081

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Inflammation, Nos
Testis		Atrophy, Nos
Thyroid		Cystic Follicles
		Hyperplasia, Follicular Cell
Unspecified		Fibroma

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_082

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Heart	Myocardium Nos Myocardium Nos	Fibrosis Inflammation, Interstitial Inflammation, Chronic Neoplastic Nodule Alveolar Macrophages Hyperplasia, Chromophobe Cell Atrophy, Nos Hyperplasia, C Cell
Kidney		
Liver		
Lung		
Pituitary gland		
Testis		
Thyroid		

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_083

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Liver

Bile Duct

Inflammation, Nos

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_084

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_085

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Lung		Alveolar Macrophages
Testis		Atrophy, Nos
Thyroid		Cystic Follicles
		Hyperplasia, Follicular Cell
Urinary bladder		Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_086

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Liver	Bile Duct	Fibrosis
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
Mammary gland		Fibrosarcoma
Testis		Atrophy, Nos
Unspecified	Adipose Tissue	Inflammation, Granulomatous

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_087

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Liver	Bile Duct	Fibrosis
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Skeletal muscle		Hemangiosarcoma
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_089

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
Pancreas		Fibrosis
Pituitary gland		Chromophobe Adenoma
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_090

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Fibrosis
		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
	Alveoli	Inflammation, Focal
Pancreas	Acinus	Atrophy, Nos
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_091

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Testis		Atrophy, Nos
Thyroid		Cyst, Ultimobranchial
		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_092

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver		Angiectasis Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
Pituitary gland		Angiectasis Chromophobe Adenoma
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_093

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Bone	Cortex Of Bone	Fibrosis Osteoporosis
Heart	Myocardium Nos	Fibrosis
Intestine Small	Mesentery Nos	Periarteritis
Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver		Hepatocytomegaly Periarteritis
Parathyroid gland		Hyperplasia, Nos
Prostate		Inflammation, Suppurative
Testis		Periarteritis

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_094

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Angiectasis
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_095

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Liver	Hepatocytomegaly
Lung	Alveolar Macrophages
Thyroid	C-Cell Carcinoma

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 3\_096

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Interstitial
Kidney		Inflammation, Chronic
Liver		Angiectasis
	Bile Duct	Fibrosis
	Bile Duct	Hyperplasia, Nos
	Bile Duct	Inflammation, Nos
Lung		Alveolar Macrophages
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Testis		Atrophy, Nos
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_097

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

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**OBSERVATIONS**

Kidney	Inflammation, Chronic
Liver	Hepatocytomegaly
	Neoplastic Nodule
Testis	Atrophy, Nos
Thyroid	Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_099

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Testis	Atrophy, Nos
Thyroid	Hyperplasia, C Cell
Urinary bladder	Hyperplasia, Epithelial

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C00180  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/Osborne Mendel

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Heptachlor  
**CAS Number:** 76-44-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 14:13:12  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 3\_100

**TRT#:** 3  
**DOSE:** 160 PPM

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

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

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Thymus		Thymoma, Benign
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

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PRIMARY CAUSE OF DEATH

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