

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

**C Number:** C04137

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Male

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_501

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Brain		Hydrocephalus, Nos
Kidney		Inflammation, Chronic
	Tubule	Regeneration, Nos
		Tubular-Cell Adenoma
Liver		Metamorphosis, Fatty
Lung		Alveolar Macrophages
Pituitary gland		Chromophobe Adenoma
Prostate		Inflammation, Suppurative
Spleen		Hematopoiesis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_502

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_503

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Intestine Large  
Kidney

Large Intestine, Colon  
Pelvis

Nematodiasis  
Hyperplasia, Epithelial  
Inflammation, Chronic

Liver  
Testis

Bile Duct

Hyperplasia, Nos  
Atrophy, Nos  
Interstitial-Cell Tumor  
Hyperplasia, C Cell

Thyroid

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_504

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Pituitary gland	Chromophobe Adenoma
Prostate	Inflammation, Suppurative
Skin	Trichoepithelioma
Testis	Atrophy, Nos
	Interstitial-Cell Tumor
Thyroid	C-Cell Adenoma
	Hyperplasia, C Cell
Trachea	Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_505

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Testis

Atrophy, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_506

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Bile Duct

Lung

Testis

Thyroid

Inflammation, Chronic

Hepatocytomegaly

Hyperplasia, Nos

Metamorphosis, Fatty

Alveolar Macrophages

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Hyperplasia, Follicular Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_507

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Testis

Hyperplasia, Focal

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

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**ANIMAL ID:** 1\_508

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Accidentally Killed

**HISTO:**

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**OBSERVATIONS**

Trachea

Inflammation, Chronic

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_509

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart		Calcification, Nos
Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Lung		C-Cell Carcinoma, Metastatic
Lymph node	Mandibular Lymph Node	C-Cell Carcinoma, Metastatic
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Carcinoma
Trachea		C-Cell Carcinoma, Invasive
Unspecified		C-Cell Carcinoma, Invasive

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_510

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Eye	Cornea	Inflammation, Chronic
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic
Unspecified		Necrosis, Fat

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

**ANIMAL ID:** 1\_511

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Brain		Glioma, Nos
Eye	Cornea	Inflammation, Chronic
Intestine Large	Large Intestine, Colon	Nematodiasis
Kidney		Inflammation, Chronic
Liver		Hepatocellular Carcinoma
Lung		Alveolar Macrophages
Pancreas	Islets	Hyperplasia, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_512

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Bronchiole

Inflammation, Suppurative

Testis

Atrophy, Nos

Trachea

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Inflammation, Chronic

Lymphoma, Histiocytic-Malignant Type

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_513

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
Lung	Bronchiole	Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

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**ANIMAL ID:** 1\_514

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Intestine Large	Large Intestine, Colon	Nematodiasis
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Chromophobe Adenoma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

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**ANIMAL ID:** 1\_515

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Blood		Reticulocytosis
Kidney		Inflammation, Chronic
Spleen		Hematopoiesis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Fibrous Histiocytoma, Malignant

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

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**ANIMAL ID:** 1\_516

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
Lung		Alveolar Macrophages
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Suppurative
Urinary bladder	Muscularis	Hemorrhage

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

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**ANIMAL ID:** 1\_517

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Intestine Large

Large Intestine, Colon

Nematodiasis

Intestine Small

Mesentery Nos

Necrosis, Fat

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Lung

Bronchus

Bronchiectasis

Pancreas

Islets

Islet-Cell Adenoma

Testis

Interstitial-Cell Tumor

Thyroid

C-Cell Adenoma

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Proflavin hydrochloride  
**CAS Number:** 952-23-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:55:05  
**First Dose M/F:** NA / NA  
**Lab:** NA

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**ANIMAL ID:** 1\_518

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

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

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

---

**OBSERVATIONS**

Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Lung		Hyperplasia, Alveolar Epithelium
Pancreas		Periarteritis
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_519

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart  
Kidney  
Lung  
Preputial gland  
Testis

Myocardium Nos

Fibrosis  
Inflammation, Chronic  
Hyperplasia, Alveolar Epithelium  
Carcinoma, Nos  
Atrophy, Nos  
Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

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**ANIMAL ID:** 1\_520

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

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

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_521

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Liver

Hepatocytomegaly

Unspecified

Multiple Organs Nos

Leukemia, Granulocytic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_522

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Metamorphosis, Fatty

Unspecified

Multiple Organs Nos

Lymphoma, Undifferentiated-Malignant Type

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

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**ANIMAL ID:** 1\_523

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
Pancreas	Acinus	Atrophy, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_524

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Pancreas

Spleen

Testis

Thyroid

Myocardium Nos

Bile Duct

Acinus

Islets

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Hyperplasia, Nos

Atrophy, Nos

Islet-Cell Adenoma

Phagocytic Cell

Interstitial-Cell Tumor

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_525

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Testis

Thyroid

Inflammation, Chronic

Atrophy, Nos

Interstitial-Cell Tumor

Cyst, Ultimobranchial

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_526

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Testis

Tunica Vaginalis

Metamorphosis, Fatty

Hyperplasia, Mesothelial

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Lymphoma, Undifferentiated-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_527

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Pituitary gland  
Prostate  
Testis  
  
Thyroid

Inflammation, Chronic  
Chromophobe Adenoma  
Inflammation, Suppurative  
Atrophy, Nos  
Interstitial-Cell Tumor  
C-Cell Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_528

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Suppurative
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_529

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Lung

C-Cell Carcinoma, Metastatic

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

C-Cell Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_530

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Lung		Alveolar Macrophages
Lymph node		Hemorrhage
Pancreas	Acinus	Atrophy, Nos
Stomach		Erosion
Testis		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_531

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Lung

Alveolar/Bronchiolar Carcinoma

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_532

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Lung

Spleen

Testis

Thyroid

Bile Duct

Inflammation, Chronic

Hyperplasia, Nos

Hyperplasia, Alveolar Epithelium

Hematoma, Nos

Atrophy, Nos

Interstitial-Cell Tumor

C-Cell Adenoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_533

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_534

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Blood		Lymphocytosis
Kidney		Osteosarcoma, Metastatic
Lung		Osteosarcoma, Metastatic
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Shoulder	Osteosarcoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_535

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver

Medulla

Hyperplasia, Focal  
Inflammation, Chronic  
Hepatocytomegaly

Lung  
Testis

Bile Duct

Hyperplasia, Focal  
Hyperplasia, Nos  
Alveolar Macrophages  
Atrophy, Nos  
Interstitial-Cell Tumor  
Inflammation, Chronic

Trachea

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_536

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Inflammation, Chronic

Liver

Hyperplasia, Focal

Testis

Bile Duct

Hyperplasia, Nos

Thyroid

Atrophy, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Multiple Organs Nos

Lymphoma, Undifferentiated-Malignant Type

Mesothelioma, Malignant

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_537

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos Necrosis, Focal
Pancreas	Acinus	Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
Unspecified		Fibroma
	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_538

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_539

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Lymphoma, Undifferentiated-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_540

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Eye

Ciliary Body

Inflammation, Suppurative

Iris

Inflammation, Suppurative

Kidney

Inflammation, Chronic

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_541

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_542

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Liver	Hepatocytomegaly
Pituitary gland	Chromophobe Adenoma
Salivary gland	Inflammation, Chronic Focal
Testis	Interstitial-Cell Tumor
Thyroid	Hyperplasia, C Cell
Trachea	Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Proflavin hydrochloride  
**CAS Number:** 952-23-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:55:05  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_543

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

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

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

---

**OBSERVATIONS**

Brain		Granular-Cell Tumor, Benign
Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_544

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Fibrosis
	Bile Duct	Hyperplasia, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_545

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Large Intestine, Colon

Nematodiasis

Kidney

Inflammation, Chronic

Liver

Bile Duct

Fibrosis

Pancreas

Bile Duct

Hyperplasia, Nodular

Testis

Acinus

Hyperplasia, Nos

Thyroid

Atrophy, Nos

Trachea

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_546

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Inflammation, Chronic

Pancreas

Acinus

Atrophy, Nos

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_547

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Brain

Heart

Kidney

Liver

Pituitary gland

Stomach

Unspecified

Cerebellum Nos

Myocardium Nos

Pelvis

Mucosa

Hemorrhage

Cytoplasmic Vacuolization

Fibrosis

Hyperplasia, Epithelial

Inflammation, Chronic

Hepatocytomegaly

Chromophobe Adenoma

Inflammation, Acute

Abscess, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_548

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Eye

Cornea

Inflammation, Chronic Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Pelvis

Hyperplasia, Epithelial

Pancreas

Acinus

Inflammation, Chronic

Prostate

Atrophy, Nos

Testis

Inflammation, Suppurative

Thyroid

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_549

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Intestine Small  
Kidney  
Skin  
Testis  
Thyroid

Medulla  
Mesentery Nos

Hyperplasia, Focal  
Necrosis, Fat  
Inflammation, Chronic  
Keratoacanthoma  
Interstitial-Cell Tumor  
Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 1\_550

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Pancreas

Islets

Islet-Cell Adenoma

Prostate

Inflammation, Suppurative

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_601

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_602

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Periarteritis

Lung

Inflammation, Chronic

Pituitary gland

Hyperplasia, Alveolar Epithelium

Prostate

Chromophobe Adenoma

Testis

Inflammation, Suppurative

Thyroid

Atrophy, Nos

Urinary bladder

Interstitial-Cell Tumor

C-Cell Adenoma

Transitional-Cell Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_603

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Liver  
Peritoneum  
Testis

Medulla

Hyperplasia, Focal  
Inflammation, Chronic  
Hepatocytomegaly  
Inflammation, Chronic  
Atrophy, Nos  
Interstitial-Cell Tumor  
Hyperplasia, C Cell  
Inflammation, Suppurative

Thyroid  
Trachea

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_604

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Acinus	Atrophy, Nos
		Fibrosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

**ANIMAL ID:** 2\_605

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Kidney

Pelvis

Prostate

Skeletal muscle

Stomach

Testis

Mucosa

Thyroid

Unspecified

Mediastinum Nos

Pheochromocytoma

Hyperplasia, Epithelial

Inflammation, Chronic

Inflammation, Suppurative

Liposarcoma

Erosion

Hyperkeratosis

Atrophy, Nos

Interstitial-Cell Tumor

C-Cell Adenoma

Neurilemoma, Malignant

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_606

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Fibrosis

Testis

Chromophobe Adenoma

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_607

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Pancreas

Pituitary gland

Prostate

Testis

Thyroid

Trachea

Myocardium Nos

Bile Duct

Acinus

Pheochromocytoma

Fibrosis

Inflammation, Chronic

Hyperplasia, Nos

Atrophy, Nos

Chromophobe Adenoma

Inflammation, Suppurative

Atrophy, Nos

Interstitial-Cell Tumor

C-Cell Adenoma

Hyperplasia, C Cell

Inflammation, Suppurative

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_608

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Brain

Hemorrhage

Prostate

Inflammation, Suppurative

Testis

Interstitial-Cell Tumor

Unspecified

Multiple Organs Nos

Lymphoma, Undifferentiated-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_609

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney	Tubule	Pigmentation, Nos
Liver		Crystals, Nos
		Metamorphosis, Fatty
Lung		Hyperplasia, Alveolar Epithelium
Spleen		Lymphoma, Undifferentiated-Malignant Type
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_610

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Urinary bladder

Hyperplasia, C Cell

Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_611

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Liver

Testis

Thyroid

Trachea

Bile Duct

Inflammation, Chronic

Hepatocellular Carcinoma

Hepatocytomegaly

Hyperplasia, Nos

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_612

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Heart

Myocardium Nos

Fibrosis

Kidney

Pelvis

Hyperplasia, Epithelial

Inflammation, Chronic

Liver

Hepatocytomegaly

Bile Duct

Hyperplasia, Nos

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

**ANIMAL ID:** 2\_613

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Fibrosis
Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver		Hepatocytomegaly
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified		Lipoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_614

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_615

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Neoplastic Nodule

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

Hyperplasia, C Cell

Fibroma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_616

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic Hepatocytomegaly
Liver	Bile Duct	Hyperplasia, Nos Alveolar Macrophages
Lung	Acinus	Atrophy, Nos Hyperkeratosis
Pancreas		Atrophy, Nos Interstitial-Cell Tumor
Skin		Hyperplasia, C Cell
Testis		
Thyroid		

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_617

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Lung		Alveolar Macrophages
Pancreas	Acinus	Atrophy, Nos
Parathyroid gland		Hyperplasia, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_618

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Intestine Small

Mesentery Nos

Sarcoma, Nos

Testis

Atrophy, Nos

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_619

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Chromophobe Adenoma
Preputial gland		Carcinoma, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_620

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lung		Hyperplasia, Alveolar Epithelium
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_621

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Bile Duct

Hyperplasia, Nos

Lung

Alveolar/Bronchiolar Adenoma

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_622

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Large Intestine, Colon

Nematodiasis

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Pancreas

Islets

Islet-Cell Adenoma

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

C-Cell Adenoma

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_623

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Lung

Hyperplasia, Alveolar Epithelium

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

Hyperplasia, C Cell

Cyst, Nos

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_624

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Small

Ileum

Leiomyosarcoma

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Bile Duct

Hyperplasia, Nos

Preputial gland

Carcinoma, Nos

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

C-Cell Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_625

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Heart  
Intestine Large  
Kidney  
Liver  
Lung  
Pancreas  
Spleen  
Testis  
  
Thyroid

Myocardium Nos  
Large Intestine, Colon  
  
Bile Duct  
  
Islets

Pheochromocytoma  
Fibrosis  
Nematodiasis  
Inflammation, Chronic  
Hyperplasia, Nos  
Congestion, Nos  
Islet-Cell Adenoma  
Fibrosis  
Atrophy, Nos  
Interstitial-Cell Tumor  
Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_626

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Intestine Large	Large Intestine, Colon	Nematodiasis
Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
Lung		Congestion, Nos
Pancreas	Acinus	Atrophy, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_627

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Lung

Congestion, Nos

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Unspecified

Hyperplasia, C Cell

Fibrosarcoma

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_628

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Brain		Abscess, Nos
Ear	Canal	Inflammation, Suppurative
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
		Metamorphosis, Fatty
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_629

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Fibrosis

Intestine Small

Ileum

Leiomyosarcoma

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Hyperplasia, Focal

Pancreas

Periarteritis

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_630

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Brain		Glioma, Nos
Heart	Myocardium Nos	Fibrosis
	Myocardium Nos	Inflammation, Focal
Lung		Congestion, Nos
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_631

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Large Intestine, Colon

Nematodiasis

Liver

Hepatocytomegaly

Pancreas

Acinus

Atrophy, Nos

Islets

Islet-Cell Adenoma

Skin

Cyst, Dermal Inclusion

Testis

Atrophy, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_632

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Pancreas	Acinus	Atrophy, Nos
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_633

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Granuloma, Nos
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
		Hyperplasia, Alveolar Epithelium
Prostate		Inflammation, Suppurative
Stomach	Mucosa	Hyperplasia, Focal
		Inflammation, Suppurative
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_634

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Lung		Alveolar Macrophages
Pituitary gland		Chromophobe Adenoma
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_635

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Nos

Salivary gland

Fibrosarcoma

Testis

Interstitial-Cell Tumor

Trachea

Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_636

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Brain	Cerebellum Nos	Cytoplasmic Vacuolization
Heart		Adenocarcinoma, Nos, Metastatic
Intestine Large	Colon	Inflammation, Suppurative
Intestine Small	Ileum	Ulcer, Focal
Kidney		Inflammation, Chronic
Lung		Alveolar Macrophages
Prostate		Inflammation, Suppurative
Skeletal muscle		Atrophy, Nos
Skin		Cyst, Dermal Inclusion
Spleen		Lymphoma, Undifferentiated-Malignant Type
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_637

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Brain		Glioma, Nos
Intestine Large	Large Intestine, Colon	Nematodiasis
Intestine Small	Ileum	Leiomyosarcoma
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Pancreas		Leiomyosarcoma, Invasive
Spleen		Lymphoma, Undifferentiated-Malignant Type
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_638

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Pancreas	Islets	Islet-Cell Adenoma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_639

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Hyperplasia, Focal

Lung

Alveolar Macrophages

Testis

Atrophy, Nos

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Trachea

Inflammation, Suppurative

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_640

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hepatocytomegaly

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Trachea

Hyperplasia, C Cell

Zymbal gland

Inflammation, Chronic

Carcinoma, Nos

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

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**ANIMAL ID:** 2\_641

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Metamorphosis, Fatty

Prostate

Inflammation, Suppurative

Testis

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

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**ANIMAL ID:** 2\_642

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Kidney

Inflammation, Chronic

Lung

Alveolar/Bronchiolar Carcinoma

Pituitary gland

Chromophobe Adenoma

Prostate

Inflammation, Suppurative

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_643

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver		Hepatocytomegaly
Lung		Hyperplasia, Alveolar Epithelium
Pancreas	Islets	Islet-Cell Carcinoma
Pituitary gland		Chromophobe Adenoma
Skin		Basal-Cell Carcinoma
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_644

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney	Pelvis	Hyperplasia, Epithelial Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos Neoplastic Nodule
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_645

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Small

Ileum

Adenocarcinoma, Nos

Kidney

Pelvis

Hyperplasia, Epithelial

Liver

Inflammation, Chronic

Hepatocytomegaly

Hyperplasia, Focal

Lung

Bile Duct

Hyperplasia, Nos

Spleen

Alveolar Macrophages

Testis

Lymphoma, Undifferentiated-Malignant Type

Atrophy, Nos

Thyroid

Interstitial-Cell Tumor

Hyperplasia, C Cell

Hyperplasia, Follicular Cell

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_646

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Kidney  
Liver  
Pancreas  
Prostate  
Testis  
  
Urinary bladder

Medulla  
Large Intestine, Colon  
  
Bile Duct  
Acinus

Hyperplasia, Nos  
Sarcoma, Nos  
Inflammation, Chronic  
Hyperplasia, Nos  
Atrophy, Nos  
Inflammation, Suppurative  
Atrophy, Nos  
Interstitial-Cell Tumor  
Hyperplasia, Epithelial

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_647

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hepatocytomegaly
Pancreas	Acinus	Atrophy, Nos
Testis		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_648

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Kidney  
Prostate  
Testis  
  
Thyroid

Medulla  
Large Intestine, Colon

Hyperplasia, Focal  
Nematodiasis  
Inflammation, Chronic  
Inflammation, Suppurative  
Atrophy, Nos  
Interstitial-Cell Tumor  
Hyperplasia, C Cell

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_649

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Kidney

Testis

Pheochromocytoma

Inflammation, Chronic

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 2\_650

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Large Intestine, Colon

Nematodiasis

Kidney

Inflammation, Chronic

Liver

Hyperplasia, Focal

Bile Duct

Hyperplasia, Nos

Lung

Alveolar Macrophages

Mammary gland

Galactocele

Testis

Atrophy, Nos

Trachea

Interstitial-Cell Tumor

Inflammation, Chronic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_301

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Fibrosis, Focal

Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Focal

Lung

Hepatocellular Carcinoma, Metastatic

Spleen

Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_302

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver		Hepatocellular Carcinoma
Spleen		Hematopoiesis
Unspecified	Thorax Nos	Hemothorax
	Multiple Organs Nos	Hepatocellular Carcinoma, Metastatic

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_303

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic Focal
Liver	Fibrosis, Focal Hepatocellular Carcinoma Necrosis, Focal
Lung	Hepatocellular Carcinoma, Metastatic

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_304

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Ear		Squamous Cell Carcinoma
Kidney		Inflammation, Chronic Focal
Liver		Fibrosis, Focal
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Focal
Lung		Hepatocellular Carcinoma, Metastatic
Spleen		Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_305

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic Focal
Liver		Fibrosis, Focal
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Nos
Lung		Hepatocellular Carcinoma, Metastatic
Spleen		Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_306

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Hepatocellular Carcinoma

Lung

Hepatocellular Carcinoma, Metastatic

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_307

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic Focal
Liver		Fibrosis, Cholangio
	Bile Duct	Hepatocellular Carcinoma
		Hyperplasia, Nos
		Necrosis, Focal
Lung	Alveoli	Hemorrhage
		Hepatocellular Carcinoma, Metastatic
Spleen		Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_308

**TRT#:** 3

**DOSE:** 0

**SEX:** Male

**DISP:**

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Heart	Hepatocellular Carcinoma, Metastatic
Kidney	Inflammation, Chronic Focal
Liver	Fibrosis, Focal
	Hepatocellular Carcinoma
Lung	Hepatocellular Carcinoma, Metastatic
Spleen	Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_309

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic Focal
Liver		Fibrosis, Focal
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Focal
Lung		Hepatocellular Carcinoma, Metastatic
Spleen		Hematopoiesis
Thyroid		Cyst, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_310

**TRT#:** 3

**DOSE:** 0

**SEX:** Male

**DISP:**

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver	Hepatocellular Carcinoma
Lung	Hepatocellular Carcinoma, Metastatic
Spleen	Hematopoiesis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_311

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Intestine Small  
Liver

Mesentery Nos

Hepatocellular Carcinoma, Metastatic  
Fibrosis, Focal  
Hepatocellular Carcinoma

Lung  
Peritoneum  
Unspecified

Hepatocellular Carcinoma, Metastatic  
Hepatocellular Carcinoma, Metastatic  
Hemothorax

Thorax Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

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**ANIMAL ID:** 3\_312

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

**SEX:** Male  
**DISP:**

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

---

**OBSERVATIONS**

Liver		Fibrosis, Focal Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Nos Hepatocellular Carcinoma, Metastatic
Lung		Hematopoiesis
Spleen		

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_313

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Intestine Small

Mesentery Nos

Hepatocellular Carcinoma, Metastatic

Liver

Hepatocellular Carcinoma

Lung

Hepatocellular Carcinoma, Metastatic

Peritoneum

Hepatocellular Carcinoma, Metastatic

Testis

Interstitial-Cell Tumor

Zymbal gland

Squamous Cell Carcinoma

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_314

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

**SEX:** Male  
**DISP:**

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

---

**OBSERVATIONS**

Liver

Fibrosis, Focal  
Hematopoiesis  
Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Nos  
Hepatocellular Carcinoma, Metastatic

Lung

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:05

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

**Lab:** NA

---

**ANIMAL ID:** 3\_315

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver		Hepatocellular Carcinoma
Peritoneum		Hemoperitoneum
Spleen		Hematopoiesis
Stomach	Pylorus	Ulcer, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 3\_316

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Fibrosis

Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Nos

Necrosis, Nos

Lung

Hepatocellular Carcinoma, Metastatic

Unspecified

Thorax Nos

Hemothorax

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 3\_317

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Ear	Canal	Squamous Cell Carcinoma
Liver		Hematopoiesis
		Hepatocellular Carcinoma
		Necrosis, Focal
Lung		Hepatocellular Carcinoma, Metastatic
Spleen		Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 3\_318

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Fibrosis, Focal

Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Focal

Necrosis, Focal

Lung

Hepatocellular Carcinoma, Metastatic

Peritoneum

Hemoperitoneum

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 3\_319

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic Focal
Liver		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Focal
		Necrosis, Focal
Lung		Hepatocellular Carcinoma, Metastatic

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 3\_320

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

**SEX:** Male  
**DISP:**

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

---

**OBSERVATIONS**

Liver

Fibrosis  
Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Nos  
Necrosis, Nos

Lung

Hepatocellular Carcinoma, Metastatic

Peritoneum

Hemoperitoneum

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 3\_321

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Fibrosis, Focal

Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Nos

Necrosis, Focal

Lung

Hepatocellular Carcinoma, Metastatic

Spleen

Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 3\_322

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic Focal
Liver		Fibrosis, Focal
		Hematopoiesis
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Focal
		Necrosis, Focal
Lung		Hepatocellular Carcinoma, Metastatic
Spleen		Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 3\_323

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Ear		Squamous Cell Carcinoma
Liver		Fibrosis, Focal
		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Focal
		Necrosis, Focal
Lung	Alveoli	Hemorrhage
		Hepatocellular Carcinoma, Metastatic
Mammary gland		Hyperplasia, Nos
		Lactation
Spleen		Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 3\_324

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver	Hematopoiesis
	Hepatocellular Carcinoma
	Necrosis, Focal
Peritoneum	Hemoperitoneum
Spleen	Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 3\_325

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Hematopoiesis

Hepatocellular Carcinoma

Bile Duct

Hyperplasia, Nos

Necrosis, Nos

Lung

Hepatocellular Carcinoma, Metastatic

Spleen

Hematopoiesis

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_001

**TRT#:** 4

**DOSE:** 0

**SEX:** Male

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Eye		Cataract
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

---

**ANIMAL ID:** 4\_002

**TRT#:** 4

**DOSE:** 0

**SEX:** Male

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Eye

Heart

Kidney

Lung

Spleen

Testis

Myocardium Nos

Bronchus

Pheochromocytoma

Cataract

Fibrosis, Focal

Inflammation, Chronic Focal

Hyperplasia, Lymphoid

Hematopoiesis

Hemosiderosis

Atrophy, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_003

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Eye		Cataract
Intestine Large	Colon	Nematodiasis
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
	Follicle	Pigmentation, Nos
Trachea		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_004

**TRT#:** 4

**DOSE:** 0

**SEX:** Male

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Eye		Cataract
Heart	Myocardium Nos	Fibrosis, Focal
Intestine Large	Colon	Nematodiasis
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Pancreas	Duct Nos	Hyperplasia, Focal
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_005

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Angiectasis
Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Bone marrow		Hyperplasia, Hematopoietic
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung		Abscess, Nos
	Bronchus	Bronchiectasis
	Bronchus	Hyperplasia, Lymphoid
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_006

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Eye		Cataract
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Focal
Pancreas	Duct Nos	Hyperplasia, Focal
Prostate		Inflammation, Suppurative
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Calcification, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_007

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Lung

Parathyroid gland

Spleen

Alveoli

Alveoli

Inflammation, Chronic

Congestion, Nos

Hemorrhage

Hyperplasia, Nos

Hematopoiesis

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_008

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Kidney		Inflammation, Chronic Focal
Liver		Focal Cellular Change
		Metamorphosis, Fatty
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_009

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Eye		Cataract
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Focal
Lung		Hyperplasia, Adenomatous
	Bronchus	Hyperplasia, Lymphoid
Prostate		Inflammation, Suppurative
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Chronic

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_010

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Lung

Mammary gland

Pituitary gland

Testis

Trachea

Myocardium Nos

Bronchus

Angiectasis

Fibrosis, Focal

Inflammation, Chronic Focal

Focal Cellular Change

Alveolar/Bronchiolar Adenoma

Hyperplasia, Lymphoid

Fibroadenoma

Chromophobe Adenoma

Atrophy, Nos

Interstitial-Cell Tumor

Inflammation, Focal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_011

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
		Inflammation, Focal
		Metamorphosis, Fatty
Lung	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Calcification, Focal
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic Focal
Unspecified		Fibroma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_012

**TRT#:** 4

**DOSE:** 0

**SEX:** Male

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Eye  
Heart  
Intestine Large  
Kidney  
Liver  
  
Lung  
Pituitary gland  
Spleen  
  
Testis  
  
Thyroid  
Trachea

Myocardium Nos  
Colon  
  
Bile Duct  
Bronchus

Angiectasis  
Cataract  
Fibrosis, Focal  
Nematodiasis  
Inflammation, Chronic Focal  
Focal Cellular Change  
Hyperplasia, Focal  
Hyperplasia, Lymphoid  
Chromophobe Adenoma  
Hematopoiesis  
Hemosiderosis  
Atrophy, Nos  
Interstitial-Cell Tumor  
C-Cell Adenoma  
Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_013

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Bone marrow		Hyperplasia, Hematopoietic
Kidney		Inflammation, Chronic
Lung	Bronchus	Hyperplasia, Lymphoid
Testis		Atrophy, Nos
	Tubule	Calcification, Focal
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Proflavin hydrochloride  
**CAS Number:** 952-23-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:55:06  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_014

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Heart	Myocardium Nos	Inflammation, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pancreas	Duct Nos	Hyperplasia, Focal
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_015

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Lung

Pancreas

Pituitary gland

Spleen

Testis

Thyroid

Myocardium Nos

Bile Duct

Bronchus

Duct Nos

Pheochromocytoma

Fibrosis, Focal

Inflammation, Chronic Focal

Hyperplasia, Focal

Metamorphosis, Fatty

Alveolar Macrophages

Hyperplasia, Lymphoid

Hyperplasia, Focal

Chromophobe Adenoma

Hematopoiesis

Hemosiderosis

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_016

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow

Eye

Kidney

Liver

Lung

Pancreas

Testis

Thyroid

Unspecified

Pelvis

Bile Duct

Bronchus

Islets

Multiple Organs Nos

Multiple Organs Nos

Hyperplasia, Hematopoietic

Cataract

Hemorrhage

Calcification, Focal

Inflammation, Chronic

Hyperplasia, Nos

Hyperplasia, Lymphoid

Islet-Cell Adenoma

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Jaundice, Nos

Lymphoma, Undifferentiated-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_017

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pancreas	Islets	Islet-Cell Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Follicular-Cell Carcinoma
		Hyperplasia, Follicular Cell
	Follicle	Pigmentation, Nos
Trachea		Inflammation, Chronic Focal
Unspecified		Inflammation, Chronic Focal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_018

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

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**OBSERVATIONS**

Liver	Centrilobular	Hematopoiesis
Lung	Alveoli	Necrosis, Focal
Lymph node	Mediastinal Lymph Node	Hemorrhage
	Mediastinal Lymph Node	Congestion, Nos
Spleen		Hemorrhage
Testis		Hematopoiesis
		Aspermatogenesis

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: C04137

Test Type: Long-Term

Route: Dosed-Feed

Species/Strain: Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Proflavin hydrochloride

CAS Number: 952-23-8

Date Report Requested: 10/26/2014

Time Report Requested: 15:55:06

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4\_019

TRT#: 4

SEX: Male

DAY ON TEST:

DOSE: 0

DISP: Moribund Sacrifice

HISTO:

**OBSERVATIONS**

Adrenal gland		Angiectasis
Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Heart	Myocardium Nos	Inflammation, Interstitial
Kidney	Pelvis	Calcification, Focal
		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pancreas	Acinus	Atrophy, Nos
	Islets	Islet-Cell Adenoma
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Stomach	Cardiac Stomach	Edema, Nos
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
	Follicle	Pigmentation, Nos

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Proflavin hydrochloride  
**CAS Number:** 952-23-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:55:06  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_020

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland		Angiectasis
	Medulla	Hyperplasia, Focal
Intestine Large	Colon	Nematodiasis
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
	Mesentery Nos	Necrosis, Fat
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
		Alveolar/Bronchiolar Carcinoma
	Bronchus	Hyperplasia, Lymphoid
Pancreas	Duct Nos	Hyperplasia, Focal
Spleen		Hematopoiesis
		Hemosiderosis
		Lymphoma, Undifferentiated-Malignant Type
Testis		Atrophy, Nos
	Tubule	Calcification, Focal
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04137  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Proflavin hydrochloride  
**CAS Number:** 952-23-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:55:06  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_021

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
	Pelvis	Transitional-Cell Carcinoma
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pancreas	Duct Nos	Hyperplasia, Focal
Spleen		Hematopoiesis
		Hemosiderosis
Stomach	Cardiac Stomach	Ulcer, Focal
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_022

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pancreas		Periarteritis
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
	Follicle	Pigmentation, Nos

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Proflavin hydrochloride  
**CAS Number:** 952-23-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:55:06  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_023

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland		Pheochromocytoma
Eye		Calcification, Nos Cataract
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Chromophobe Adenoma
Preputial gland		Adenoma, Nos Inflammation, Suppurative
Testis		Ulcer, Nos Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea	Follicle	Pigmentation, Nos
Unspecified	Multiple Organs Nos	Inflammation, Chronic Focal Lymphoma, Undifferentiated-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Proflavin hydrochloride  
**CAS Number:** 952-23-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:55:06  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_024

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Adrenal gland		Angiectasis
		Pheochromocytoma
Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Eye		Cataract
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Chromophobe Adenoma
Prostate		Inflammation, Suppurative
Skin		Squamous Cell Carcinoma
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Cystic Follicles
		Hyperplasia, Follicular Cell
Trachea		Inflammation, Chronic Focal

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_025

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Pelvis

Hyperplasia, Epithelial

Inflammation, Chronic

Pelvis

Inflammation, Suppurative

Pelvis

Necrosis, Nos

Stomach

Mucosa

Calcification, Nos

Urinary bladder

Hyperplasia, Epithelial

Inflammation, Suppurative

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_026

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Bone marrow		Hyperplasia, Hematopoietic
Eye		Pus
	Cornea	Ulcer, Nos
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
		Squamous Cell Carcinoma, Metastatic
Pancreas	Duct Nos	Fibrosis
	Duct Nos	Hyperplasia, Nos
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Zymbal gland		Squamous Cell Carcinoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_027

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic
	Convolutated Tubules	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Focal
Lung		Alveolar Macrophages
	Bronchus	Hyperplasia, Lymphoid
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Trachea		Inflammation, Chronic
Unspecified	Multiple Organs Nos	Mesothelioma, Malignant

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_028

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney	Pelvis	Calcification, Focal Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Angiectasis
Prostate		Chromophobe Adenoma
Spleen		Inflammation, Suppurative
Thyroid		Hematopoiesis
Trachea		Hemosiderosis
		Hyperplasia, C Cell
		Inflammation, Chronic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_029

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Blood vessel

Kidney

Liver

Lung

Pancreas

Spleen

Testis

Thyroid

Unspecified

Pulmonary Artery Nos

Bile Duct

Bronchus

Duct Nos

Angiectasis

Calcification, Medial

Inflammation, Focal

Hyperplasia, Focal

Hyperplasia, Lymphoid

Hyperplasia, Focal

Hematopoiesis

Hemosiderosis

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Lipoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_030

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland	Medulla	Hyperplasia, Focal
Heart	Myocardium Nos	Inflammation, Interstitial
Intestine Large	Colon	Nematodiasis
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung		Calcification, Focal
	Bronchus	Hyperplasia, Lymphoid
Pancreas	Duct Nos	Hyperplasia, Focal
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Focal
	Tubule	Calcification, Focal
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
		Hyperplasia, Follicular Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Proflavin hydrochloride  
**CAS Number:** 952-23-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:55:06  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_031

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Eye		Cataract
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Focal
Pancreas	Duct Nos	Hyperplasia, Focal
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04137  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Proflavin hydrochloride  
**CAS Number:** 952-23-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:55:06  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_032

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Eye		Calcification, Nos Cataract
Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Parathyroid gland		Adenoma, Nos
Pituitary gland		Angiectasis Chromophobe Adenoma
Prostate		Inflammation, Suppurative
Testis		Atrophy, Nos Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic Focal Inflammation, Nos
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_033

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Bone marrow  
Kidney  
Liver  
Lung  
Preputial gland

Bile Duct  
Bronchus

Testis

Thyroid  
Unspecified

Multiple Organs Nos

Hemorrhage  
Hyperplasia, Hematopoietic  
Inflammation, Chronic Focal  
Hyperplasia, Focal  
Hyperplasia, Lymphoid  
Adenoma, Nos  
Inflammation, Suppurative  
Necrosis, Focal  
Atrophy, Nos  
Interstitial-Cell Tumor  
Hyperplasia, C Cell  
Lymphoma, Undifferentiated-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_034

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Bone marrow

Hyperplasia, Hematopoietic

Liver

Bile Duct

Hyperplasia, Focal

Testis

Atrophy, Nos

Unspecified

Multiple Organs Nos

Interstitial-Cell Tumor

Lymphoma, Undifferentiated-Malignant Type

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_035

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Focal
		Metamorphosis, Fatty
Lung	Bronchus	Hyperplasia, Lymphoid
Pancreas	Duct Nos	Hyperplasia, Focal
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
	Follicle	Pigmentation, Nos

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137  
**Test Type:** Long-Term  
**Route:** Dosed-Feed  
**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Proflavin hydrochloride  
**CAS Number:** 952-23-8

**Date Report Requested:** 10/26/2014  
**Time Report Requested:** 15:55:06  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_036

**TRT#:** 4  
**DOSE:** 0

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

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

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Brain		Hemorrhage
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Nos
Spleen		Hematopoiesis
Stomach	Cardiac Stomach	Inflammation, Focal
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid	Follicle	Pigmentation, Nos
Trachea		Inflammation, Chronic
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_037

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Chromophobe Adenoma
Preputial gland		Adenoma, Nos
		Necrosis, Nos
Spleen		Hematopoiesis
		Hemosiderosis
Stomach	Mucosa	Erosion
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		C-Cell Adenoma

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_038

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Bone marrow  
Kidney

Hyperplasia, Erythroid

Hemosiderosis

Inflammation, Interstitial

Liver

Bile Duct

Hyperplasia, Focal

Lung

Bronchiole

Hyperplasia, Lymphoid

Inflammation, Suppurative

Preputial gland

Adenoma, Nos

Spleen

Hematopoiesis

Testis

Atrophy, Nos

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_039

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Spleen

Testis

Tubule

Hemosiderosis

Atrophy, Nos

Calcification, Focal

Interstitial-Cell Tumor

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_040

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Eye		Cataract
Intestine Large	Colon	Nematodiasis
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pancreas	Duct Nos	Hyperplasia, Focal
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_041

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Intestine Large  
Intestine Small  
Kidney  
Liver  
  
Lung  
Pituitary gland  
Preputial gland

Colon  
Mesentery Nos

Bile Duct  
Bronchus

Spleen

Testis

Tubule

Thyroid

Angiectasis  
Nematodiasis  
Periarteritis  
Inflammation, Chronic  
Focal Cellular Change  
Hyperplasia, Focal  
Hyperplasia, Lymphoid  
Chromophobe Adenoma  
Adenoma, Nos  
Inflammation, Acute  
Necrosis, Focal  
Hematopoiesis  
Hemosiderosis  
Atrophy, Nos  
Calcification, Focal  
Interstitial-Cell Tumor  
Hyperplasia, C Cell

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_042

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Bone marrow		Hyperplasia, Hematopoietic
Eye		Cataract
Heart	Myocardium Nos	Fibrosis, Focal
	Myocardium Nos	Inflammation, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_043

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Lung

Spleen

Testis

Thyroid

Trachea

Unspecified

Myocardium Nos

Bile Duct

Bronchus

Multiple Organs Nos

Angiectasis

Fibrosis, Focal

Inflammation, Chronic

Hyperplasia, Focal

Metamorphosis, Fatty

Hyperplasia, Lymphoid

Hematopoiesis

Hemosiderosis

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Inflammation, Chronic

Lymphoma, Undifferentiated-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_044

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Nos

Blood vessel

Pulmonary Artery Nos

Calcification, Medial

Eye

Cataract

Heart

Myocardium Nos

Fibrosis, Focal

Kidney

Inflammation, Chronic

Liver

Bile Duct

Hyperplasia, Focal

Lung

Bronchus

Hyperplasia, Lymphoid

Spleen

Hematopoiesis

Hemosiderosis

Testis

Interstitial-Cell Tumor

Thyroid

Hyperplasia, C Cell

Trachea

Inflammation, Chronic

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_045

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Spleen		Fibrosis, Focal
		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
		Pigmentation, Nos

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

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**ANIMAL ID:** 4\_046

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Pancreas	Duct Nos	Hyperplasia, Focal
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_047

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland  
Blood vessel  
Eye  
Intestine Large  
Kidney  
Liver  
Lung  
Spleen  
  
Testis  
  
Trachea

Pulmonary Artery Nos

Colon

Bile Duct

Bronchus

Angiectasis  
Calcification, Medial  
Cataract  
Nematodiasis  
Inflammation, Chronic  
Hyperplasia, Focal  
Hyperplasia, Lymphoid  
Hematopoiesis  
Hemosiderosis  
Atrophy, Nos  
Interstitial-Cell Tumor  
Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** C04137

**Test Type:** Long-Term

**Route:** Dosed-Feed

**Species/Strain:** Rat/F344

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Proflavin hydrochloride

**CAS Number:** 952-23-8

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

**Time Report Requested:** 15:55:06

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

**Lab:** NA

**ANIMAL ID:** 4\_048

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
	Convolutated Tubules	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Focal
		Metamorphosis, Fatty
Lung	Bronchus	Hyperplasia, Lymphoid
Testis		Atrophy, Focal
	Tubule	Calcification, Focal
		Interstitial-Cell Tumor
Thyroid	Follicle	Pigmentation, Nos
Trachea		Inflammation, Chronic Focal
Unspecified	Multiple Organs Nos	Jaundice, Nos
	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type

**PRIMARY CAUSE OF DEATH**

-

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**ANIMAL ID:** 4\_049

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pancreas	Duct Nos	Hyperplasia, Focal
		Periarteritis
Skin	Neck	Squamous Cell Carcinoma
Spleen		Hematopoiesis
		Hemosiderosis
Testis		Atrophy, Nos
		Interstitial-Cell Tumor
Thyroid		Hyperplasia, C Cell
	Follicle	Pigmentation, Nos

**PRIMARY CAUSE OF DEATH**

-

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**Lab:** NA

**ANIMAL ID:** 4\_050

**TRT#:** 4

**SEX:** Male

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Blood vessel

Kidney

Liver

Pulmonary Artery Nos

Bile Duct

Lung

Spleen

Testis

Bronchus

Thyroid

Trachea

Angiectasis

Calcification, Medial

Inflammation, Chronic Focal

Focal Cellular Change

Hyperplasia, Focal

Metamorphosis, Fatty

Hyperplasia, Lymphoid

Lymphoma, Undifferentiated-Malignant Type

Atrophy, Nos

Interstitial-Cell Tumor

Hyperplasia, C Cell

Inflammation, Chronic

PRIMARY CAUSE OF DEATH

-

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

\* PROTOCOL REQUIRED TISSUE