

**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:** 10:26:51

**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:** Female

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_551

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hepatocellular Carcinoma

Pituitary gland

Chromophobe Adenoma

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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_552

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Lung		Alveolar Macrophages
Ovary		Cyst, Nos
Pancreas	Acinus	Atrophy, Nos
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic
Uterus	Endometrium	Hyperplasia, Nos
	Endometrium	Inflammation, Suppurative

---

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_553

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Liver		Hyperplasia, Focal
Lung		Adenocarcinoma, Nos, Metastatic
Pancreas	Acinus	Atrophy, Nos
Thyroid		Hyperplasia, C Cell
Uterus		Adenocarcinoma, Nos

---

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_554

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Kidney

Inflammation, Chronic

Pituitary gland

Chromophobe Adenoma

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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_555

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart		Periarteritis
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Lung		Alveolar Macrophages
Ovary		Inflammation, Suppurative
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Chromophobe Adenoma
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_556

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Blood vessel  
Kidney  
Lung  
Mammary gland  
Thyroid  
Trachea

Aorta Nos

Periarteritis  
Inflammation, Chronic  
Alveolar Macrophages  
Fibroadenoma  
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_557

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Hyperplasia, Focal
Lung		Alveolar Macrophages
Ovary		Cyst, Nos
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Inflammation, Suppurative

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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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_558

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Mammary gland		Fibroadenoma
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Chromophobe Adenoma
Thyroid		C-Cell Adenoma
Trachea		Inflammation, Chronic
Uterus	Endometrium	Hyperplasia, Nos
	Endometrium	Inflammation, Suppurative

---

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_559

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Mammary gland

Pituitary gland

Thyroid

Inflammation, Chronic

Adenocarcinoma, Nos

Chromophobe 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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_560

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hyperplasia, Focal

Mammary gland

Fibroadenoma

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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_561

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Lung		Alveolar Macrophages
Pituitary gland		Chromophobe Adenoma
Spleen		Hemangiosarcoma
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
	Endometrium	Inflammation, Suppurative

---

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_562

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic
Liver	Hyperplasia, Focal
Lung	Alveolar Macrophages
Mammary gland	Fibroadenoma
Pituitary gland	Chromophobe Adenoma
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_563

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Lung		Alveolar Macrophages
Pituitary gland		Chromophobe Adenoma
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_564

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Medulla

Hyperplasia, Focal

Heart

Myocardium Nos

Fibrosis

Liver

Hyperplasia, Focal

Thyroid

Bile Duct

Hyperplasia, Nos

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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_565

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Thyroid

Hyperplasia, C Cell

Unspecified

Multiple Organs Nos

Lymphoma, Undifferentiated-Malignant Type

Urinary bladder

Transitional-Cell Carcinoma

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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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_566

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Intestine Large  
Kidney  
Liver  
Lung  
Pancreas  
Pituitary gland  
Thyroid  
Trachea

Large Intestine, Colon  
  
Bile Duct  
  
Acinus

Nematodiasis  
Inflammation, Chronic  
Hyperplasia, Nos  
Alveolar Macrophages  
Atrophy, Nos  
Chromophobe Adenoma  
Hyperplasia, C Cell  
Inflammation, Suppurative

---

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_567

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Angiectasis
		Hyperplasia, Focal
Lung		Alveolar Macrophages
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Chromophobe Adenoma
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_568

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Hyperplasia, Focal
Mammary gland		Fibroadenoma
Ovary		Inflammation, Suppurative
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Inflammation, Suppurative

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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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_569

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Lung	Bronchiole	Inflammation, Suppurative
Pituitary gland		Chromophobe Adenoma
Unspecified		Edema, 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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_570

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Pancreas

Acinus

Atrophy, Nos

Pituitary gland

Chromophobe Adenoma

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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_571

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Mammary gland

Thyroid

Inflammation, Chronic

Galactocele

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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_572

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Intestine Large

Liver

Thyroid

Unspecified

Urinary bladder

Uterus

Large Intestine, Colon

Bile Duct

Bile Duct

Multiple Organs Nos

Endometrium

Endometrium

Nematodiasis

Fibrosis

Hyperplasia, Nos

Hyperplasia, C Cell

Lymphoma, Undifferentiated-Malignant Type

Edema, Nos

Hyperplasia, Cystic

Inflammation, Suppurative

---

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_573

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lung

Alveolar Macrophages

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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_574

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney		Inflammation, Chronic
Lung		Alveolar Macrophages
Mammary gland		Fibroadenoma
		Galactocele
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Hemorrhage
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
	Endometrium	Inflammation, Suppurative

---

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_575

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver	Hepatocellular Carcinoma
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_576

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_577

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Cortex

Cyst, Nos

Liver

Hepatocytomegaly

Hyperplasia, Focal

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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_578

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Mammary gland

Pancreas

Thyroid

Trachea

Unspecified

Acinus

Multiple Organs Nos

Fibroadenoma

Atrophy, Nos

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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_579

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Hyperplasia, Focal
Lung		Alveolar Macrophages
Ovary		Cyst, Nos
		Inflammation, Suppurative
Salivary gland	Parotid Gland Nos	Atrophy, Nos
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_580

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Brain	Cortex	Gliosis
	Cortex	Hemorrhage
Kidney		Inflammation, Chronic
Mammary gland		Galactocele
Parathyroid gland		Hyperplasia, Nos
Pituitary gland		Chromophobe 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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_581

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Chromophobe Adenoma
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_582

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Lung

Alveolar Macrophages

Mammary gland

Fibroadenoma

Thyroid

Galactocele

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:** 10:26:51  
**First Dose M/F:** NA / NA  
**Lab:** NA

---

**ANIMAL ID:** 1\_583

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

---

**OBSERVATIONS**

Liver		Hyperplasia, Focal
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Chromophobe Adenoma
Skin	Eyelid Nos	Abscess, Nos
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic
Uterus		Endometrial Stromal Polyp
	Endometrium	Inflammation, Suppurative

---

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_584

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Mammary gland		Galactocele
Pituitary gland		Chromophobe Adenoma
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_585

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver  
Mammary gland  
Thyroid  
Uterus

Bile Duct

Endometrium

Hyperplasia, Nos  
Hyperplasia, Focal  
Hyperplasia, C Cell  
Endometrial Stromal Polyp  
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_586

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Ovary		Cyst, Nos
		Granulosa-Cell Tumor
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Chromophobe Adenoma
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_587

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Large Intestine, Colon

Nematodiasis

Kidney

Inflammation, Chronic

Liver

Hyperplasia, Focal

Pituitary gland

Chromophobe Adenoma

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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_588

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Mammary gland

Trachea

Uterus

Fibroadenoma

Inflammation, Chronic

Endometrial Stromal Polyp

---

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_589

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver	Hyperplasia, Focal
Mammary gland	Fibroadenoma
Pituitary gland	Chromophobe Adenoma
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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_590

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Mammary gland		Fibroadenoma
Pituitary gland		Chromophobe Adenoma
Thyroid		C-Cell Adenoma
Trachea		Inflammation, Suppurative
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type
Uterus	Endometrium	Hyperplasia, Stromal

---

**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:** 10:26:51

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

**Lab:** NA

---

**ANIMAL ID:** 1\_591

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hyperplasia, Focal

Mammary gland

Metamorphosis, Fatty

Galactocele

Pituitary gland

Hyperplasia, Focal

Thyroid

Chromophobe Adenoma

Trachea

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 1\_592

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver	Bile Duct	Hyperplasia, Nos
Mammary gland		Galactocele
Pituitary gland		Chromophobe Adenoma
Thyroid		Hyperplasia, C Cell
Uterus		Hemorrhage

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 1\_593

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Pituitary gland		Chromophobe Adenoma
Skin		Inflammation, Suppurative
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
	Endometrium	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 1\_594

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Mammary gland		Galactocele
Pancreas	Acinus	Atrophy, Nos
Uterus	Endometrium	Hyperplasia, Cystic

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 1\_595

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Clitoral gland		Carcinoma, Nos
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Nerve, peripheral		C-Cell Carcinoma, Invasive
Ovary		Cyst, Nos
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Chromophobe Adenoma
Thyroid		C-Cell Carcinoma
Tongue		Acanthosis
Trachea		Inflammation, Chronic
Uterus	Endometrium	Hyperplasia, Cystic
	Endometrium	Inflammation, Suppurative

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 1\_596

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Kidney

Liver

Lung

Pituitary gland

Thyroid

Trachea

Large Intestine, Colon

Bile Duct

Nematodiasis

Inflammation, Chronic

Hyperplasia, Focal

Hyperplasia, Nos

Alveolar Macrophages

Chromophobe Adenoma

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 1\_597

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Mammary gland

Inflammation, Chronic

Fibroadenoma

Galactocele

Hyperplasia, Focal

Ovary

Cyst, Nos

Pituitary gland

Chromophobe Adenoma

Spleen

Hematopoiesis

Thyroid

Hyperplasia, C Cell

Uterus

Endometrial Stromal Sarcoma

Endometrium

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 1\_598

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Mammary gland		Galactocele
Pituitary gland		Chromophobe Adenoma
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Suppurative
Uterus	Endometrium	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 1\_599

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Large Intestine, Colon

Nematodiasis

Liver

Hyperplasia, Focal

Thyroid

C-Cell Carcinoma

Unspecified

C-Cell Carcinoma, Invasive

Uterus

Endometrial Stromal Polyp

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 1\_600

**TRT#:** 1

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 300 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Metamorphosis, Fatty
Lung		Alveolar Macrophages
		Inflammation, Nos
Mammary gland		Galactocele
Pancreas	Islets	Hyperplasia, Nos
Pituitary gland		Chromophobe Adenoma
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_651

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lung		Abscess, Nos Hyperplasia, Alveolar Epithelium
Pancreas	Acinus	Atrophy, Nos Chromophobe Adenoma
Pituitary gland		Hyperplasia, C Cell
Thyroid		Sarcoma, Granulocytic
Unspecified	Multiple Organs 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_652

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Mammary gland

Hyperplasia, Focal

Fibroadenoma

Galactocele

Pancreas

Acinus

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_653

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Mammary gland

Galactocele

Pituitary gland

Inflammation, Suppurative

Thyroid

Chromophobe 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_654

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland  
Kidney  
Pancreas  
Pituitary gland  
Thyroid  
Unspecified

Cortex Nos

Acinus

Multiple Organs Nos

Cytomegaly  
Inflammation, Chronic  
Atrophy, Nos  
Chromophobe Adenoma  
Hyperplasia, Follicular 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_655

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Fibrosis

Liver

Hyperplasia, Focal

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_656

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Hyperplasia, Focal

Bile Duct

Hyperplasia, Nos

Lung

Alveolar Macrophages

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_657

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hyperplasia, Focal

Pituitary gland

Chromophobe Adenoma

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_658

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Hyperplasia, Focal
Lung		Alveolar Macrophages
		Hyperplasia, Alveolar Epithelium
Mammary gland		Galactocele
Pancreas	Islets	Islet-Cell Carcinoma
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_659

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Lymphoma, Nos-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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_660

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hepatocellular Carcinoma

Pituitary gland

Chromophobe Adenoma

Thyroid

Hyperplasia, C Cell

Trachea

Inflammation, Chronic

Uterus

Endometrial Stromal Polyp

Endometrium

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_661

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large  
Kidney

Large Intestine, Colon

Nematodiasis  
Nephrosis, Hydro  
Transitional-Cell Carcinoma  
Hyperplasia, Focal  
Alveolar Macrophages  
Atrophy, Nos  
Endometrial Stromal Polyp

Liver  
Lung  
Pancreas  
Uterus

Acinus

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_662

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Mammary gland

Thyroid

Trachea

Galactocele

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_663

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Fibrosis

Liver

Hyperplasia, Focal

Bile Duct

Hyperplasia, 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_664

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Pituitary gland		Chromophobe Adenoma
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_665

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Pelvis

Hyperplasia, Epithelial

Liver

Bile Duct

Hyperplasia, 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_666

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis
Liver		Hyperplasia, Focal
Pituitary gland		Chromophobe Adenoma
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_667

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Eye	Cornea	Inflammation, Chronic
Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Mammary gland		Fibroadenoma
		Galactocele
Thyroid		C-Cell Adenoma
Uterus	Endometrium	Hyperplasia, Cystic
	Endometrium	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_668

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver	Metamorphosis, Fatty
Pituitary gland	Chromophobe 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_669

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Liver

Hyperplasia, Focal

Bile Duct

Hyperplasia, Nos

Pancreas

Acinus

Atrophy, Nos

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_670

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lung

Alveolar Macrophages

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_671

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Heart  
Intestine Large  
Kidney  
Pituitary gland

Myocardium Nos  
Large Intestine, Colon

Fibrosis  
Nematodiasis  
Inflammation, Chronic  
Chromophobe 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_672

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Lung		Alveolar Macrophages
Pancreas	Acinus	Atrophy, Nos
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_673

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large

Large Intestine, Colon

Nematodiasis

Liver

Hyperplasia, Focal

Lung

Alveolar Macrophages

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_674

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Liver

Mammary gland

Unspecified

Uterus

Multiple Organs Nos

Endometrium

Metamorphosis, Fatty

Galactocele

Lymphoma, Undifferentiated-Malignant Type

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_675

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Cytomegaly

Liver

Bile Duct

Hyperplasia, Nos

Thyroid

C-Cell Adenoma

Uterus

Endometrial Stromal Polyp

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_676

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Mammary gland		Galactocele
Pituitary gland		Chromophobe Adenoma
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_677

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Lung

Hyperplasia, Alveolar Epithelium

Pituitary gland

Chromophobe Adenoma

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_678

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver  
Pituitary gland  
Thyroid

Hyperplasia, Focal  
Chromophobe Adenoma  
Follicular-Cell Carcinoma  
Hyperplasia, C Cell  
Inflammation, Suppurative

Uterus  
Endometrium

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_680

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Hyperplasia, Focal

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_681

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Hepatocytomegaly

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_682

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Lung

Alveolar Macrophages

Pancreas

Acinus

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_683

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Hyperplasia, Focal
Mammary gland		Adenocarcinoma, Nos Fibroadenoma
Thyroid		Hyperplasia, C Cell Hyperplasia, Follicular Cell
Uterus	Endometrium	Hyperplasia, Cystic
	Endometrium	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_684

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart

Myocardium Nos

Fibrosis

Lung

Abscess, Nos

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_685

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Pituitary gland  
Thyroid

Inflammation, Chronic  
Chromophobe 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_686

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver  
Pituitary gland  
Thyroid

Bile Duct

Hyperplasia, Nos  
Chromophobe 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_687

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Lung

Edema, Nos

Pituitary gland

Chromophobe Adenoma

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_688

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver		Hyperplasia, Focal
	Bile Duct	Hyperplasia, Nos
Pituitary gland		Chromophobe Adenoma
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_689

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver  
Pituitary gland

Bile Duct

Hyperplasia, Nos  
Chromophobe 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_690

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lung  
Pituitary gland  
Thyroid  
Trachea

Alveolar Macrophages  
Chromophobe Adenoma  
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_691

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Lung		Alveolar Macrophages
Ovary		Necrosis, Fat
Pancreas	Acinus	Atrophy, Nos
Pituitary gland		Chromophobe Adenoma
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
	Endometrium	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_692

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Unspecified

Multiple Organs Nos

Lymphoma, Nos-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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_693

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Kidney

Cyst, Multiple

Uterus

Endometrium

Inflammation, Chronic

Hyperplasia, Stromal

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_694

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Skin

Keratoacanthoma

Unspecified

Multiple Organs Nos

Lymphoma, Nos-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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_695

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Liver

Mammary gland

Thyroid

Uterus

Hyperplasia, Focal

Fibroadenoma

Hyperplasia, C Cell

Leiomyoma

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_696

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Lung	Alveolar Macrophages
Pituitary gland	Chromophobe Adenoma
Spleen	Hematopoiesis
Thyroid	C-Cell Adenoma
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_697

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart  
Intestine Large  
Kidney  
Liver  
Thyroid

Myocardium Nos  
Large Intestine, Colon

Fibrosis  
Nematodiasis  
Inflammation, Chronic  
Hyperplasia, Focal  
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_698

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic
Liver		Hyperplasia, Focal
Lung		Alveolar Macrophages
Pituitary gland		Chromophobe Adenoma
Spleen		Hematopoiesis
Uterus	Endometrium	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_699

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Intestine Large  
Kidney  
Liver

Large Intestine, Colon

Nematodiasis  
Inflammation, Chronic  
Hyperplasia, Focal  
Hyperplasia, Nos  
Chromophobe Adenoma  
C-Cell Adenoma  
Hyperplasia, C Cell

Bile Duct

Pituitary gland  
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 2\_700

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 600 PPM

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney

Inflammation, Chronic

Pituitary gland

Chromophobe Adenoma

Stomach

Mucosa

Inflammation, Acute 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_326

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney	Cortex	Pigmentation, Nos
Liver		Hepatocellular Carcinoma
Lung		Hepatocellular Carcinoma, Metastatic
Spleen		Hematopoiesis
		Leukemia, Undifferentiated

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_327

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver	Bile Duct	Fibrosis, Focal Hepatocellular Carcinoma
Lung	Bile Duct	Hyperplasia, Focal 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_328

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Kidney	Inflammation, Chronic Focal
Liver	Hepatocellular Carcinoma
Lung	Hepatocellular Carcinoma, Metastatic
Bronchus	Hyperplasia, Lymphoid

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_329

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver	Hepatocellular Carcinoma
Lung	Hepatocellular Carcinoma, Metastatic
Mammary gland	Papillary Carcinoma
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_330

**TRT#:** 3

**SEX:** Female

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_331

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

**SEX:** Female  
**DISP:**

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

---

**OBSERVATIONS**

Liver

Bile Duct

Hepatocellular Carcinoma  
Hyperplasia, Nos  
Necrosis, Coagulative  
Hepatocellular Carcinoma, Metastatic

Lung

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_332

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:**

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver	Hepatocellular Carcinoma
Lung	Hepatocellular Carcinoma, Metastatic
Ovary	Cyst, Parovarian

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_333

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Blood		Leukemia, Monocytic
Liver		Hepatocellular Carcinoma
Lymph node	Subscapular Lymph Node	Fibroadenocarcinoma, Metastatic
Mammary gland		Fibroadenocarcinoma
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_334

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Lung

Mammary gland

Bronchus

Hepatocellular Carcinoma

Hepatocellular Carcinoma, Metastatic

Hyperplasia, Lymphoid

Adenoma, Nos

Inflammation, Suppurative

Necrosis, 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_335

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver		Hepatocellular Carcinoma
	Bile Duct	Hyperplasia, Focal
Lung		Hepatocellular Carcinoma, Metastatic
Mammary gland		Adenocarcinoma, Nos
Uterus	Endometrium	Hyperplasia, Nos
	Endometrium	Inflammation, 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_336

**TRT#:** 3

**SEX:** Female

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_337

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver		Hepatocellular Carcinoma
Lung		Hepatocellular Carcinoma, Metastatic
Unspecified	Base Of Tail	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_338

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Ear

Keratin-Pearl Formation

Liver

Squamous Cell Carcinoma

Spleen

Hepatocellular Carcinoma

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_339

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver		Hepatocellular Carcinoma
Mammary gland		Adenocarcinoma, Nos
Stomach	Mucosa	Necrosis, 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_340

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

**SEX:** Female  
**DISP:**

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

---

**OBSERVATIONS**

Ear	Canal	Sebaceous Adenoma
Liver		Hepatocellular Carcinoma
Lung		Alveolar/Bronchiolar Carcinoma
		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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_341

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:** Natural Death

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Lung

Unspecified

Hepatocellular Carcinoma

Hepatocellular Carcinoma, Metastatic

Keratoacanthoma

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_342

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

**SEX:** Female  
**DISP:**

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

---

**OBSERVATIONS**

Liver

Bile Duct Adenoma  
Hepatocellular Carcinoma

Centrilobular

Necrosis, Nos  
Inflammation, Focal

Stomach

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_343

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Fibrosis, Focal

Lung

Hepatocellular Carcinoma

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_344

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:**

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Lung

Hepatocellular Carcinoma

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_345

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:**

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Ear

Liver

Lung

Squamous Cell Carcinoma

Hepatocellular Carcinoma

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_346

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Liver

Uterus

Hepatocellular Carcinoma

Endometrial Stromal Polyp

Hemorrhage

Infection, Bacterial

Endometrium

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_347

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

**SEX:** Female  
**DISP:**

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

---

**OBSERVATIONS**

Eye	Retina	Degeneration, Nos Hyperemia
Liver		Hematopoiesis Hepatocellular Carcinoma
Mammary gland		Adenoma, Nos
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_348

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:**

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver		Hepatocellular Carcinoma
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_349

**TRT#:** 3

**DOSE:** 0

**SEX:** Female

**DISP:**

**DAY ON TEST:**

**HISTO:**

---

**OBSERVATIONS**

Liver

Lung

Hepatocellular Carcinoma

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 3\_350

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:**

**HISTO:**

---

**OBSERVATIONS**

Liver		Hepatocellular Carcinoma
Lung	Bronchus	Hyperplasia, Lymphoid
Mammary gland		Adenocarcinoma, Nos
		Fibroadenoma

---

**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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_051

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Atrium	Thrombosis, Nos
Kidney	Convolutated Tubules	Degeneration, Hyaline
		Inflammation, Chronic Focal
	Convolutated Tubules	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Focal
		Metamorphosis, Fatty
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Granulopoiesis
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type
Uterus	Endometrium	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_052

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Blood vessel

Heart

Kidney

Lung

Pituitary gland

Spleen

Thyroid

Trachea

Pulmonary Artery Nos

Myocardium Nos

Bronchus

Angiectasis

Calcification, Medial

Fibrosis, Focal

Inflammation, Chronic Focal

Hyperplasia, Lymphoid

Angiectasis

Chromophobe Adenoma

Hematopoiesis

Hemosiderosis

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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_053

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Eye	Lens, Capsule	Degeneration, Nos
Kidney		Inflammation, Chronic
Lung	Bronchus	Hyperplasia, Lymphoid
Ovary		Cyst, Parovarian
Pituitary gland		Angiectasis
Spleen		Chromophobe Adenoma
Thyroid		Hematopoiesis
Trachea		Hemosiderosis
Uterus	Endometrium	Hyperplasia, C Cell
	Fallopian Tube	Inflammation, Chronic
		Inflammation, Suppurative
		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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_054

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Heart

Kidney

Liver

Spleen

Trachea

Unspecified

Myocardium Nos

Pelvis

Pelvis

Bile Duct

Diaphragm Nos

Angiectasis

Fibrosis, Focal

Calcification, Focal

Transitional-Cell Carcinoma

Hyperplasia, Focal

Hematopoiesis

Hemosiderosis

Adenocarcinoma, Nos

Hernia, Nos

---

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_055

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Ovary		Inflammation, Suppurative
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic Focal
Urinary bladder		Transitional-Cell Carcinoma
Uterus	Fallopian Tube	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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_056

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Blood vessel

Heart

Kidney

Liver

Lung

Pituitary gland

Spleen

Thyroid

Trachea

Uterus

Pulmonary Artery Nos

Myocardium Nos

Bile Duct

Bronchus

Fallopian Tube

Angiectasis

Calcification, Medial

Fibrosis, Focal

Inflammation, Chronic

Hyperplasia, Focal

Hyperplasia, Lymphoid

Angiectasis

Chromophobe Adenoma

Hematopoiesis

Hemosiderosis

Hyperplasia, C Cell

Inflammation, Chronic Focal

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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_057

**TRT#:** 4

**DOSE:** 0

**SEX:** Female

**DISP:** Scheduled Sacrifice

**DAY ON TEST:**

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pancreas		Ectopia
Pituitary gland	Islets	Islet-Cell Adenoma
		Angiectasis
Thyroid		Chromophobe Adenoma
Unspecified	Multiple Organs Nos	Hyperplasia, C Cell
Uterus	Endometrium	Lymphoma, Undifferentiated-Malignant Type
	Endometrium	Hyperplasia, Cystic
	Fallopian Tube	Inflammation, Suppurative
		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:** 10:26:52  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_058

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pancreas	Duct Nos	Hyperplasia, Focal
Spleen		Erythropoiesis
		Granulopoiesis
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic
Uterus		Adenocarcinoma, Nos
		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic
	Endometrium	Inflammation, Suppurative

**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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_059

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Heart	Myocardium Nos	Fibrosis, Focal
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Preputial gland		Adenoma, Nos
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		C-Cell Adenoma
		Fibrosis

---

**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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_060

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Bone marrow

Brain

Liver

Lung

Mammary gland

Ovary

Pituitary gland

Unspecified

Uterus

Bronchus

Multiple Organs Nos

Multiple Organs Nos

Multiple Organs Nos

Endometrium

Pheochromocytoma

Hyperplasia, Hematopoietic

Hemorrhage

Metamorphosis, Fatty

Hyperplasia, Lymphoid

Fibroadenoma

Cyst, Parovarian

Cyst, Hemorrhagic

Hemorrhage

Congestion, Nos

Jaundice, Nos

Lymphoma, Undifferentiated-Malignant Type

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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_061

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Eye		Cataract
Kidney		Inflammation, Chronic Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Ovary		Cyst, Parovarian
Pancreas	Duct Nos	Hyperplasia, Focal
Pituitary gland		Chromophobe Adenoma
Skin		Inflammation, Chronic Focal
		Ulcer, Focal
Spleen		Hematopoiesis
		Hemosiderosis
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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_062

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Cortex Nos

Metamorphosis, Fatty

Blood vessel

Pulmonary Artery Nos

Calcification, Focal

Pulmonary Artery Nos

Thrombus, Organized

Kidney

Tubule

Pigmentation, Nos

Liver

Bile Duct

Hyperplasia, Focal

Centrilobular

Metamorphosis, Fatty

Pigmentation, Nos

Thrombosis, Nos

Uterus

Endometrium

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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_063

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Heart		Endocarditis, Bacterial
Kidney	Pelvis	Calcification, Focal Pyelonephritis, Nos
Liver	Bile Duct	Hyperplasia, Focal Metamorphosis, Fatty
Lung		Alveolar/Bronchiolar Adenoma
Pancreas	Duct Nos	Hyperplasia, Focal
Pituitary gland		Hemorrhage
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type
Uterus	Fallopian Tube	Inflammation, Suppurative

**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:** 10:26:52  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_064

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

**SEX:** Female  
**DISP:** Natural Death

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

**OBSERVATIONS**

Adrenal gland		Necrosis, Focal
Bone marrow		Hyperplasia, Hematopoietic
Heart	Myocardium Nos	Fibrosis, Focal
Kidney	Pelvis	Hyperplasia, Focal
Lung		Alveolar Macrophages
	Bronchus	Bronchiectasis
	Bronchus	Hyperplasia, Lymphoid
Mammary gland		Galactocele
Pancreas	Duct Nos	Hyperplasia, Focal
Pituitary gland		Angiectasis
Preputial gland		Adenoma, Nos
		Necrosis, Nos
Spleen		Hematopoiesis
Unspecified	Multiple Organs Nos	Congestion, Nos
	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_065

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney  
Liver

Convoluted Tubules  
Bile Duct

Pigmentation, Nos  
Hyperplasia, Focal  
Metamorphosis, Fatty

Pituitary gland  
Thyroid

Hemosiderosis  
C-Cell Adenoma  
Hyperplasia, C Cell

Unspecified

Multiple Organs Nos  
Multiple Organs Nos

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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_066

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Granulocytic
Kidney	Convolutated Tubules	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Focal
		Metamorphosis, Fatty
	Centrilobular	Necrosis, Diffuse
Lung	Bronchus	Hyperplasia, Lymphoid
Ovary		Cyst, Parovarian
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Erythropoiesis
		Granulopoiesis
Uterus		Endometrial Stromal Polyp
	Endometrium	Inflammation, Suppurative
	Fallopian Tube	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_067

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Kidney

Liver

Lung

Mammary gland

Ovary

Pituitary gland

Spleen

Trachea

Convoluted Tubules

Bile Duct

Bronchus

Angiectasis

Pigmentation, Nos

Hyperplasia, Focal

Hyperplasia, Lymphoid

Fibroadenoma

Cyst, Parovarian

Angiectasis

Chromophobe Adenoma

Hematopoiesis

Hemosiderosis

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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_068

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Ovary		Cyst, Parovarian
Pancreas	Duct Nos	Hyperplasia, Focal
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic Suppurative
Urinary bladder	Mucosa	Hemorrhage
Uterus	Endometrium	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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_069

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Intestine Small

Peyers Patch

Hyperplasia, Nos

Kidney

Inflammation, Chronic Focal

Liver

Neoplastic Nodule

Lung

Bronchus

Hyperplasia, Lymphoid

Mammary gland

Fibroadenoma

Galactocele

Ovary

Cyst, Nos

Pituitary gland

Angiectasis

Chromophobe Adenoma

Spleen

Hematopoiesis

Hemosiderosis

Uterus

Endometrial Stromal Polyp

Endometrium

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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_070

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Bone marrow

Heart

Intestine Large

Kidney

Lung

Mammary gland

Pancreas

Pituitary gland

Spleen

Thyroid

Unspecified

Uterus

Myocardium Nos

Colon

Bronchus

Duct Nos

Multiple Organs Nos

Fallopian Tube

Angiectasis

Hyperplasia, Hematopoietic

Fibrosis, Focal

Nematodiasis

Inflammation, Chronic Focal

Hyperplasia, Lymphoid

Galactocele

Hyperplasia, Focal

Hyperplasia, Focal

Angiectasis

Chromophobe Adenoma

Hematopoiesis

C-Cell Adenoma

Hyperplasia, C Cell

Lymphoma, Undifferentiated-Malignant Type

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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_071

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Kidney

Lung

Pituitary gland

Spleen

Thyroid

Trachea

Uterus

Bronchus

Endometrium

Hemorrhage

Inflammation, Chronic Focal

Hyperplasia, Lymphoid

Angiectasis

Chromophobe Adenoma

Hematopoiesis

Hemosiderosis

Hyperplasia, C Cell

Hyperplasia, Follicular Cell

Inflammation, Focal

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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_072

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Pigmentation, Nos
Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Bone marrow		Hyperplasia, Hematopoietic
Kidney	Convolutated Tubules	Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Focal
		Metamorphosis, Fatty
Lung		Alveolar Macrophages
	Bronchus	Hyperplasia, Lymphoid
Pancreas		Edema, Nos
Pituitary gland		Angiectasis
		Chromophobe Adenoma
		Hemosiderosis
Unspecified	Multiple Organs Nos	Jaundice, Nos
	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type
Uterus	Fallopian Tube	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:** 10:26:52

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

**Lab:** NA

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**ANIMAL ID:** 4\_073

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Brain	Midbrain Nos	Compression, Nos
Kidney		Inflammation, Chronic Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Trachea		Inflammation, Chronic

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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:** 10:26:52  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_074

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
	Bronchus	Hyperplasia, Lymphoid
Lymph node	Mediastinal Lymph Node	Congestion, Nos
	Mediastinal Lymph Node	Hemosiderosis
Ovary		Cyst, Parovarian
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Trachea		Inflammation, Chronic
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic
	Endometrium	Inflammation, Suppurative
	Fallopian Tube	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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_075

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Eye		Cataract
Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
		Metamorphosis, Fatty
Lung		Edema, Nos
	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Unspecified	Multiple Organs Nos	Congestion, Nos
Uterus	Fallopian Tube	Inflammation, Suppurative

**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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_076

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Congestion, Nos
Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Bone marrow		Hyperplasia, Hematopoietic
Eye		Cataract
Kidney	Convolutated Tubules	Pigmentation, Nos
Lung		Alveolar Macrophages
	Bronchus	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Ovary		Cyst, Parovarian
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic
Uterus	Endometrium	Hyperplasia, Nos
	Endometrium	Inflammation, Suppurative
	Fallopian Tube	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:** 10:26:52

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

**Lab:** NA

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**ANIMAL ID:** 4\_077

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Adrenal gland

Blood vessel

Eye

Kidney

Lung

Pancreas

Spleen

Thyroid

Trachea

Pulmonary Artery Nos

Pelvis

Bronchus

Duct Nos

Congestion, Nos

Calcification, Medial

Cataract

Calcification, Focal

Inflammation, Chronic Focal

Hyperplasia, Lymphoid

Hyperplasia, Focal

Hematopoiesis

Hemosiderosis

C-Cell Adenoma

Hyperplasia, C Cell

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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_078

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland		Congestion, Nos
Eye		Cataract
Heart	Myocardium Nos	Inflammation, Interstitial
Kidney		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
	Bronchus	Hyperplasia, Lymphoid
Lymph node	Mediastinal Lymph Node	Hemosiderosis
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic
Uterus	Endometrium	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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_079

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Inflammation, Interstitial
Kidney	Pelvis	Calcification, Focal
		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Mammary gland		Fibroma
Ovary		Cyst, Parovarian
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic
	Endometrium	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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_080

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Blood vessel

Brain

Eye

Heart

Kidney

Liver

Lung

Pituitary gland

Spleen

Thyroid

Unspecified

Pulmonary Artery Nos

Midbrain Nos

Myocardium Nos

Bile Duct

Bronchus

Diaphragm Nos

Multiple Organs Nos

Congestion, Nos

Calcification, Medial

Compression, Nos

Cataract

Fibrosis, Focal

Inflammation, Chronic Focal

Inflammation, Nos

Hyperplasia, Lymphoid

Angiectasis

Chromophobe Adenoma

Hematopoiesis

Hyperplasia, C Cell

Hernia, 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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_081

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Blood vessel

Pulmonary Artery Nos

Calcification, Medial

Kidney

Convolutated Tubules

Pigmentation, Nos

Lung

Alveolar Macrophages

Bronchus

Hyperplasia, Lymphoid

Mammary gland

Adenocarcinoma, Nos

Fibroadenoma

Spleen

Hematopoiesis

Hemosiderosis

Thyroid

Hyperplasia, C Cell

Uterus

Hemosiderosis

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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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_082

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic
Lung	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic
Uterus	Endometrium	Inflammation, Suppurative
	Fallopian Tube	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:** 10:26:52

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

**Lab:** NA

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**ANIMAL ID:** 4\_083

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Bone marrow

Heart

Kidney

Lung

Pancreas

Thyroid

Trachea

Unspecified

Uterus

Myocardium Nos

Cortex

Convolutd Tubules

Bronchus

Islets

Multiple Organs Nos

Hyperplasia, Hematopoietic

Fibrosis, Focal

Cyst, Nos

Pigmentation, Nos

Hyperplasia, Lymphoid

Islet-Cell Adenoma

Hyperplasia, C Cell

Inflammation, Chronic

Lymphoma, Undifferentiated-Malignant Type

Endometrial Stromal Polyp

Hydrometra

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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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_084

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis, Focal
Kidney		Inflammation, Chronic Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
		Galactocele
Ovary		Cyst, Parovarian
Pancreas	Islets	Islet-Cell Adenoma
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		C-Cell Adenoma
Trachea		Inflammation, Chronic Focal
Uterus	Fallopian Tube	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:** 10:26:52

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

**Lab:** NA

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**ANIMAL ID:** 4\_085

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Kidney

Inflammation, Interstitial

Liver

Cytoplasmic Change, Nos

Lung

Pneumonia, Chronic Murine

Spleen

Hematopoiesis

Thyroid

Hemosiderosis

Uterus

Hyperplasia, C Cell

Endometrium

Endometrial Stromal Polyp

Hyperplasia, Nos

Pyometra

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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:** 10:26:52

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

**Lab:** NA

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**ANIMAL ID:** 4\_086

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung		Alveolar Macrophages
	Bronchus	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
		Galactocele
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		C-Cell Adenoma
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:** 10:26:52

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

**Lab:** NA

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**ANIMAL ID:** 4\_087

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Liver	Bile Duct	Hyperplasia, Focal Metamorphosis, Fatty
Lung	Centrilobular	Necrosis, Nos
Spleen	Bronchus	Hyperplasia, Lymphoid
Unspecified	Multiple Organs Nos	Fibrosis
	Multiple Organs Nos	Congestion, Nos
		Lymphoma, Nos-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: 10:26:52

First Dose M/F: NA / NA

Lab: NA

ANIMAL ID: 4\_088

TRT#: 4

SEX: Female

DAY ON TEST:

DOSE: 0

DISP: Scheduled Sacrifice

HISTO:

OBSERVATIONS

Adrenal gland		Angiectasis
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Mammary gland		Galactocele
	Mammary Lobule	Hyperplasia, Nos
Ovary		Cyst, Nos
Pancreas	Duct Nos	Hyperplasia, Focal
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Preputial gland		Adenoma, Nos
		Cyst, Nos
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		Follicular-Cell Carcinoma
		Hyperplasia, C Cell
		Sclerosis
Trachea		Inflammation, Chronic
Uterus		Adenocarcinoma, Nos
	Endometrium	Hyperplasia, Focal
	Endometrium	Inflammation, Suppurative
	Fallopian Tube	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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_089

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Heart	Myocardium Nos	Fibrosis, Focal
Kidney	Convolutd Tubules	Pigmentation, Nos
Liver	Hepatocytes	Degeneration, Nos
		Lymphocytic Inflammatory Infiltrate
Lung	Bronchus	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
		Galactocele
Ovary		Cyst, Parovarian
Pituitary gland		Cyst, Nos
Spleen		Hematopoiesis
		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Tongue		Squamous Cell Papilloma
Uterus	Endometrium	Inflammation, Suppurative
	Fallopian Tube	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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_090

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Bone marrow		Hyperplasia, Hematopoietic
Intestine Large	Colon	Nematodiasis
Kidney		Inflammation, Chronic Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Mammary gland		Fibroadenoma
Ovary		Cyst, Follicular Nos
Spleen		Hematopoiesis
Thyroid		Hyperplasia, C Cell
Trachea		Inflammation, Chronic
Unspecified	Multiple Organs Nos	Lymphoma, Undifferentiated-Malignant Type
Uterus	Endometrium	Cyst, Nos
	Endometrium	Hyperplasia, Cystic
	Endometrium	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:** 10:26:52

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

**Lab:** NA

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**ANIMAL ID:** 4\_091

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Blood vessel

Pulmonary Artery Nos

Calcification, Medial

Heart

Myocardium Nos

Inflammation, Focal

Kidney

Convolutated Tubules

Pigmentation, Nos

Liver

Bile Duct

Hyperplasia, Focal

Mammary gland

Adenocarcinoma, Nos

Spleen

Hematopoiesis

Unspecified

Multiple Organs Nos

Hemosiderosis

Uterus

Endometrium

Congestion, Nos

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:** 10:26:52

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

**Lab:** NA

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**ANIMAL ID:** 4\_092

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Natural Death

**HISTO:**

---

**OBSERVATIONS**

Bone marrow

Kidney

Liver

Lung

Ovary

Trachea

Unspecified

Uterus

Convoluted Tubules

Bile Duct

Bronchus

Multiple Organs Nos

Fallopian Tube

Hyperplasia, Hematopoietic

Pigmentation, Nos

Hyperplasia, Focal

Metamorphosis, Fatty

Hyperplasia, Lymphoid

Cyst, Parovarian

Inflammation, Chronic Focal

Lymphoma, Undifferentiated-Malignant Type

Inflammation, Suppurative

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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:** 10:26:52  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_093

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

**OBSERVATIONS**

Eye		Cataract
Kidney	Convolutated Tubules	Pigmentation, Nos
Lung		Alveolar Macrophages
		Hyperplasia, Adenomatous
	Bronchus	Hyperplasia, Lymphoid
Preputial gland		Adenoma, Nos
		Cyst, Nos
		Inflammation, Suppurative
		Necrosis, Nos
Spleen		Granulopoiesis
		Hematopoiesis
Thyroid		C-Cell Adenoma
		Hyperplasia, C Cell
Uterus	Fallopian Tube	Inflammation, Suppurative

**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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_094

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Eye		Cataract
Intestine Small	Peyers Patch	Hyperplasia, Lymphoid
Kidney		Inflammation, Chronic Focal
Liver	Bile Duct	Hyperplasia, Focal
Lung		Alveolar Macrophages
		Hyperplasia, Alveolar Epithelium
Ovary	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Cyst, Parovarian
Spleen		Hemorrhage
		Hematopoiesis
		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Cystic
	Endometrium	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:** 10:26:52

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

**Lab:** NA

---

**ANIMAL ID:** 4\_095

**TRT#:** 4

**SEX:** Female

**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
Lung		Alveolar Macrophages
	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Angiectasis
		Chromophobe Adenoma
Spleen		Hematopoiesis
		Hemosiderosis
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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_096

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Blood vessel	Pulmonary Artery Nos	Calcification, Medial
Eye		Cataract
Heart	Myocardium Nos	Inflammation, Focal
Kidney		Inflammation, Chronic Focal
Lung		Alveolar Macrophages
	Bronchus	Hyperplasia, Lymphoid
Ovary		Cyst, Parovarian
Pituitary gland		Hemorrhage
Preputial gland		Hyperplasia, Nos
		Inflammation, Suppurative
		Metaplasia, Squamous
		Necrosis, Nos
Spleen		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Uterus		Endometrial Stromal Polyp
	Endometrium	Hyperplasia, Focal
	Endometrium	Inflammation, Suppurative
	Fallopian Tube	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:** 10:26:52  
**First Dose M/F:** NA / NA  
**Lab:** NA

**ANIMAL ID:** 4\_097

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

**SEX:** Female  
**DISP:** Scheduled Sacrifice

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

**OBSERVATIONS**

Adrenal gland		Hemorrhage
Heart	Myocardium Nos	Inflammation, Interstitial
Kidney		Pigmentation, Nos
Liver	Bile Duct	Hyperplasia, Focal
Lung		Alveolar Macrophages
Mammary gland	Bronchus	Hyperplasia, Lymphoid
Spleen		Fibroadenoma
		Hematopoiesis
		Hemosiderosis
Thyroid		Hyperplasia, C Cell
Uterus	Endometrium	Hyperplasia, Cystic
	Endometrium	Inflammation, Suppurative

**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:** 10:26:52

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

**Lab:** NA

**ANIMAL ID:** 4\_098

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

**OBSERVATIONS**

Adrenal gland

Eye

Kidney

Lung

Ovary

Pancreas

Pituitary gland

Spleen

Thyroid

Trachea

Uterus

Bronchus

Duct Nos

Endometrium

Hemorrhage

Cataract

Inflammation, Chronic Focal

Hyperplasia, Lymphoid

Cyst, Parovarian

Hyperplasia, Focal

Congestion, Nos

Hematopoiesis

Hemosiderosis

Hyperplasia, C Cell

Inflammation, Chronic

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:** 10:26:52

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

**Lab:** NA

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**ANIMAL ID:** 4\_099

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Moribund Sacrifice

**HISTO:**

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**OBSERVATIONS**

Ear  
Intestine Small

Canal  
Ileum  
Jejunum  
Convolutated Tubules

Kidney  
Liver  
Peritoneum  
Thyroid

Inflammation, Nos  
Adenocarcinoma, Nos  
Ulcer, Nos  
Pigmentation, Nos  
Metamorphosis, Fatty  
Inflammation, Focal  
Follicular-Cell Adenoma  
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:** 10:26:52

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

**Lab:** NA

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**ANIMAL ID:** 4\_100

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:**

**DOSE:** 0

**DISP:** Scheduled Sacrifice

**HISTO:**

---

**OBSERVATIONS**

Eye		Cataract
Heart	Myocardium Nos Epicardium	Fibrosis, Focal Inflammation, Focal
Kidney		Inflammation, Chronic Focal
Lung	Bronchus	Hyperplasia, Lymphoid
Pituitary gland		Angiectasis Chromophobe Adenoma
Spleen		Hemorrhage Hematopoiesis
Thyroid		Hemosiderosis
Uterus		Hyperplasia, C Cell Hydrometra

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**PRIMARY CAUSE OF DEATH**

-

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