

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

<b>C Number:</b>	C60377
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	08/13/1990

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 6-2		
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Cytoplasmic Alteration	Focal, Mild
Lymph Node	Mandibular	Hyperplasia	Reticulum Cell, Minimal
Mammary Gland		Hyperplasia	Mild
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Acute, Minimal
Prostate		Inflammation	Acute, Minimal
Note: INFLAMMATION	TGLs = 4-16		
Seminal Vesicle		Dilatation	Mild
Spleen		Fibrosis	Mild
Note: FIBROSIS	TGLs = 5,7-14		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-6		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** UNTREATD CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A852500

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 630
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
Kidney		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-2			
Lymph Node	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-4.1			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Acute, Minimal
Prostate		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 2-6+14			
Skin		Inflammation	Chronic Active, Mild
Note: INFLAMMATION TGLs = 1-13			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicular Cel	Adenoma	
Note: ADENOMA TGLs = 7-3			
Tissue NOS		Liposarcoma	
Note: LIPOSARC TGLs = 8-15			
Note: LIPOSARCOMA IS A CHORDOMA.			

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 612
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-14		
Heart		Inflammation	Chronic, Minimal
Intestine Large	Colon	Parasite Metazoan	
Intestine Small	Jejunum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Minimal
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC	TGLs = 6-13	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 3-8+8.1	Inflammation	Chronic, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 3

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 612

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852502

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852503

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

**OBSERVATIONS**

Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Pancreas		Atrophy	Focal, Minimal
Preputial Gland		Inflammation	Chronic, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		
Tissue NOS		Fibroma	
Note: FIBROMA	TGLs = 1-13		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> A852504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Moderate
Kidney		Nephropathy	Moderate
Liver		Ectasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2		
Note: ECTASIA	TGLs = 6-14		
Lung		Leukemia Mononuclear	
Mammary Gland		Inflammation	Chronic, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1,2-13+13.1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 585
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intestine Large	Rectum	Mesothelioma Nos	
Intestine Small	Jejunum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6,7-2+14		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-3		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	Renal	Mesothelioma Nos	
Note: LEUKEMIA MONUC	TGLs = 10-15		
Mesentery		Mesothelioma Nos	
Note: MESOTHELIO NOS	TGLs = 3-13		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		
Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-3		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 585
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852505

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Urinary Bladder	Leukemia Mononuclear
-----------------	----------------------

---

<b>PRIMARY CAUSE OF DEATH</b>	-
-------------------------------	---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 676
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Leukemia Mononuclear	
Intest Small			
Kidney		Nephropathy	Mild
Liver		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-3			
Lymph Node	Mandibular	Leukemia Mononuclear	
Prostate		Inflammation	Acute, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-6			
Thymus		Congestion	Minimal
Thyroid Gland	C Cell	Hyperplasia	Moderate
Tissue NOS		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 1-13			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 7

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 676

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852506

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 612
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone Marrow		Leukemia Mononuclear	
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 3-5+13			
Liver		Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Lung		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 5-1			
Preputial Gland		Inflammation	Chronic, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-6			
Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 700
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL	TGLs = 5-8		
Bone			
Note: CONSIDERABLE NEW BONE FORMATION.			
Bone Marrow		Leukemia Mononuclear	
Heart		Inflammation	Chronic, Minimal
	Atrium Lft	Thrombosis	Moderate
Note: THROMBUS	TGLs = 8-14		
Kidney		Nephropathy	Moderate
Liver		Ectasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-2		
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 6-4		
Nose		Fungus	
	Mucosa	Inflammation	Chronic Active, Mild
Preputial Gland		Inflammation	Chronic, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-2		
Stomach	Forestomach	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

<b>ANIMAL ID:</b> 9	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 700
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852508

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 3-6		
Tissue NOS		Fibroma
Note: FIBROMA TGLs = 1-13		

---

PRIMARY CAUSE OF DEATH	-
------------------------	---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 612

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852509

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Mammary Gland
Parathyroid Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

**OBSERVATIONS**

Heart		Inflammation	Chronic, Mild
Intestine Small	Jejunum	Adenocarcinoma	
Note: ADENOCARC	TGLs = 4-13		
Kidney		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-2		
Lymph Node	Pancreatic	Ectasia	Mild
Note: ECTASIA	TGLs = 2-14		
Nose	Mucosa	Fungus	
		Inflammation	Chronic Active, Moderate
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Prostate		Inflammation	Acute, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-2		
Testes	Interstitial Cell	Adenoma	
Note: ADENOMA	TGLs = 1-6		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 605

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Mammary Gland  
Salivary Glands  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Nose  
Seminal Vesicle

Brain  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Parathyroid Gland  
Skin

Epididymis  
Intestine Large - Colon  
Islets, Pancreatic  
Prostate  
Trachea

OBSERVATIONS

Adrenal Gland  
Bone Marrow  
Intestine Small  
Kidney  
Note: LEUKEMIA MONUC TGLs = 4-5+17  
Liver

Cortex  
  
Ileum

Vacuolization Cytoplasmic  
Leukemia Mononuclear  
Leukemia Mononuclear  
Leukemia Mononuclear  
  
Hepatodiaphragmatic Nodule  
Leukemia Mononuclear

Minimal

Note: LEUKEMIA MONUC TGLs = 7-2  
Note: ANOM HEPAT LOB TGLs = 8-14  
Lung  
Lymph Node

Mandibular  
Mesenteric  
Pancreatic

Leukemia Mononuclear  
Leukemia Mononuclear  
Leukemia Mononuclear  
Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3,6-13+16  
Pancreas  
Pituitary Gland

Pars Intermed

Leukemia Mononuclear  
Hyperplasia  
Leukemia Mononuclear  
Inflammation  
Leukemia Mononuclear

Mild

Preputial Gland  
Spleen  
Note: LEUKEMIA MONUC TGLs = 2-2  
Stomach

Forestomach  
Glandular  
Bilateral, Interstit Cell

Leukemia Mononuclear  
Leukemia Mononuclear  
Adenoma

Chronic, Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 11

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 605

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852510

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: ADENOMA TGLs = 1-6

Thymus

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9-15

Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 12	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> A852511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Mammary Gland	Pancreas
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
Mesentery		Mesothelioma Malignant	
	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 2-14			
Note: MESOTHELIO MAL TGLs = 4,5-15+16			
Nose		Fungus	
	Mucosa	Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Intermed	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Acute, Minimal
Prostate		Inflammation	Chronic, Mild
Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC TGLs = 1-13			
Spleen		Congestion	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-6			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 597

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Nose	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla Cortex	Pheochromocytoma Benign Vacuolization Cytoplasmic	Minimal
[ Vacuolization Cytoplasmic TGLS = 5-8 ]			
Brain		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-1		
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7,8-2		
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-4		
Pancreas		Atrophy	Focal, Moderate
Note: ATROPHY	TGLs = 4-4		
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Preputial Gland		Inflammation	Chronic, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-2		
Stomach	Forestomach	Hyperkeratosis	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6+6.1		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 13

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 597

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852512

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 676

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lymph Node - Mandibular
Mammary Gland	Nose	Pituitary Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Marked
Note: ALL BLOOD VESSELS HAVE MINERALIZATION.			
Bone		Fibrous Osteodystrophy	Moderate
Heart		Inflammation	Chronic, Mild
		Mineralization	Marked
Note: MINERALIZATION TGLs = 4-2			
Intestine Large	Colon	Mineralization	Mild
	Rectum	Mineralization	Mild
Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-5			
Lung		Mineralization	Mild
Lymph Node	Lymphocyte, Mesenteric	Depletion Cellular	Moderate
Pancreas		Atrophy	Focal, Mild
Parathyroid Gland		Hyperplasia	Moderate
Preputial Gland		Inflammation	Acute, Moderate
Note: INFLAMMATION TGLs = 1-8			
Prostate		Inflammation	Chronic, Minimal
Stomach	Glandular	Mineralization	Moderate
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 582

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Blood		Anemia	
Note: ANEMIA	TGLs = 1-61		
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney	Renal Tubule	Degeneration	Moderate
		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-2		
Lung		Leukemia Mononuclear	
Prostate		Inflammation	Acute, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Mammary Gland	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Inflammation	Chronic, Minimal
Intestine Large	Cecum	Edema	Mild
Note: EDEMA TGLs = 9-15			
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 6-5			
Liver		Hepatocellular Adenoma	
Note: LEUKEMIA MONUC TGLs = 7-2		Leukemia Mononuclear	
Note: HEPATOCLR ADEN TGLs = 8-14			
Lung		Alveolar/Bronchiolar Adenoma	
Note: LEUKEMIA MONUC TGLs = 12-3		Leukemia Mononuclear	
Note: ALV BRON ADEN TGLs = 13-3			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852515

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: LEUKEMIA MONUC TGLs = 1,5,10,11-3+4+7+16

Nose

Foreign Body

Mild

Mucosa

Inflammation

Chronic Active, Moderate

Preputial Gland

Inflammation

Chronic, Minimal

Spleen

Fibrosis

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-2

Note: FIBROSIS TGLs = 4-13

Testes

Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-6

Zymbal's Gland

Carcinoma

Note: CARCINOMA TGLs = 14-17

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Hyperplasia	Lymphoid, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Jejunum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 5-14			
Preputial Gland		Inflammation	Acute, Marked
Note: INFLAMMATION TGLs = 3-8			
Skin		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 1-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 707

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Intestine Small	Ileum	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-4		
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Note: LEUKEMIA MONUC	TGLs = 8-5+15		
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-2		
Lung		Leukemia Mononuclear	
Lymph Node	Iliac	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1,2,7,11,14,15,16 -		
Note: LEUKEMIA MONUC	TGLs = 3+7+13+14+16+17+18		
Nose		Foreign Body	Mild
	Mucosa	Inflammation	Chronic Active, Mild
Pancreas		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 18

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 707

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852517

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Prostate		Inflammation	Chronic, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-2		
Testes	Bilateral, Interstit Cell	Adenoma	
		Hemorrhage	Moderate
Note: ADENOMA	TGLs = 4,5-6		
Thymus		Leukemia Mononuclear	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 19	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> A852518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Jejunum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 2-13			
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Acute, Minimal
Spleen		Fibrosis	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
------------------------	---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852519

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
Note: INFILTRAT CELL TGLs = 2-3			
Nose		Fungus	
	Respirat Epith	Hyperplasia	Moderate
	Mucosa	Inflammation	Chronic Active, Moderate
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-6			
Thymus		Angiectasis	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 502

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Cyst Pheochromocytoma Benign	Minimal
Bone Marrow		Leukemia Mononuclear	
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Minimal
Liver		Leukemia Mononuclear Thrombosis	Mild
Note: LEUKEMIA MONUC TGLs = 2-2			
Lung		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Moderate
Note: ADENOMA TGLs = 3-1			
Prostate		Inflammation	Acute, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-2			
Testes	Bilateral, Interstit Cell	Hyperplasia	Mild
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 709

DOSE: UNTREATD CONTROL

DISP: Dead

HISTO: A852521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Autolysis	Minimal
	Jejunum	Autolysis	Marked
Kidney		Nephropathy	Mild
Liver	Centrilobular	Necrosis	Mild
Lung		Inflammation	Chronic, Mild
Mammary Gland	Duct	Ectasia	Minimal
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-1			
Prostate		Inflammation	Chronic, Moderate
Skin	Subcut Tiss	Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 2-13			
Stomach	Glandular	Autolysis	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Parathyroid Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	Minimal
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Mild
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 2-1			
Preputial Gland		Inflammation	Chronic, Minimal
Prostate		Hyperplasia	Minimal
		Inflammation	Chronic, Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Medulla	Hyperplasia Pheochromocytoma Benign	Minimal
Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Lung		Inflammation	Chronic, Mild
Nose		Inflammation	Chronic, Minimal
Pancreas	Acinar Cell	Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Chronic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	

Note: ADENOMA TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 612

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Pancreas	Parathyroid Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-2		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-13		
Nose		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		
Thymus		Leukemia Mononuclear	
Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 582

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Bone Marrow		Leukemia Mononuclear	
Epididymis		Granuloma Sperm	Moderate
Note: GRANLOMA SPERM TGLs = 3-13			
Heart		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
Liver		Leukemia Mononuclear	
Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-3+3.1			
Lymph Node	Iliac	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4,7,8,10-3+4+14			
Pancreas		Leukemia Mononuclear	
Pituitary Gland		Leukemia Mononuclear	
Preputial Gland		Inflammation	Acute, Minimal
Skin		Congestion	Moderate
		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 26

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 582

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852525

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: CONGESTION	TGLs = 11-15			
Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2			
Testes		Interstit Cell	Adenoma	
			Atrophy	Moderate
Note: ATROPHY	TGLs = 2-6			
Note: ADENOMA	TGLs = 1-6			
Thymus			Leukemia Mononuclear	
Thyroid Gland		C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH		-		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Mild
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Nose		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	Pars Intermed	Hyperplasia	Mild
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Hyperplasia Pheochromocytoma Benign	Minimal
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-2			
Nose		Inflammation	Chronic, Mild
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 535

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Hypertrophy	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Brain		Hydrocephalus	Minimal
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Granulomatous, Mild
Lung	Alveolar Epith	Hyperplasia	Mild
Mammary Gland		Galactocele	Moderate
Note: GALACTOCELE	TGLs = 1-7.1		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-2		
Prostate		Inflammation	Chronic, Mild
Stomach	Forestomach	Ulcer	Marked
Testes	Bilateral, Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland [ Pheochromocytoma Benign TGLS = 4-8 ]	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Minimal
Intestine Large	Colon Rectum	Parasite Metazoan Parasite Metazoan	
Kidney Note: NEPHROPATHY TGLs = 5-5		Nephropathy	Moderate
Liver  Note: ANOM HEPAT LOB TGLs = 6-14		Hepatodiaphragmatic Nodule Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Minimal Minimal
Preputial Gland Note: CARCINOMA TGLs = 1-13		Carcinoma	
Prostate		Inflammation	Chronic, Minimal
Spleen Note: LEUKEMIA MONUC TGLs = 3-2		Leukemia Mononuclear	
Testes Note: ADENOMA TGLs = 2-6	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicular Cel	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 30

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** UNTREATD CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A852529

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: CARCINOMA      TGLs = 7-3

C Cell

Hyperplasia

Moderate

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 655

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Mesothelioma Malignant	
	Bilateral, Medulla	Pheochromocytoma Benign	
Eye	Lens	Cataract	Marked
	Retina	Degeneration	Marked
Note: CATARACT TGLs = 1-13			
Heart		Mesothelioma Malignant	Metastatic (Uncertain Primary Site)
Note: MESOTHELIO MAL TGLs = 10-2			
Kidney		Mesothelioma Malignant	
		Nephropathy	Mild
Note: MESOTHELIO MAL TGLs = 7-15			
Liver		Leukocytosis	Marked
Note: [ LEUKOCYTOSIS ] TGLs = 6-2			
Lung		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 8,9-3			
Lymph Node	Bronchial	Mesothelioma Malignant	
Mammary Gland		Hyperplasia	Minimal
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 4-14			
Nose		Inflammation	Chronic, Minimal
Pancreas		Mesothelioma Malignant	
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Acute, Mild
Prostate		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

<b>ANIMAL ID:</b> 31	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 655
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852530

---

<b>ORGAN AND ACCOUNTABLE SITE STATUS</b>			
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: [ HEMA CELL PROL ] TGLs = 5-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-6			
Thyroid Gland	C Cell	Hyperplasia	Mild

---

<b>PRIMARY CAUSE OF DEATH</b>	-
-------------------------------	---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Lung
Lymph Node - Mandibular	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Mild
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Islets, Pancreatic		Carcinoma	
Note: CARCINOMA	TGLs = 2-4.1		
Kidney		Nephropathy	Moderate
Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Pancreatic	Carcinoma	Metastatic (Islets, Pancreatic)
Pituitary Gland	Pars Distalis	Adenoma	
Prostate		Inflammation	Chronic, Minimal
Salivary Glands		Atrophy	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-6		
Thyroid Gland	Follicle	Dilatation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Pancreas	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Moderate
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Liver		Hepatocellular Adenoma	
		Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia	Minimal
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3-13		
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hypertrophy	Mild
Preputial Gland		Inflammation	Chronic, Minimal
Prostate		Inflammation	Chronic, Minimal
Salivary Glands		Inflammation	Chronic, Mild
Spleen		Congestion	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 612

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Preputial Gland
------------------------	-------------------------	-----------------

OBSERVATIONS

Blood		Anemia	
Note: ANEMIA	TGLs = 1-61		
Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Jejunum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Mesentery		Mesothelioma Nos	
Note: MESOTHELIO NOS	TGLs = 5-13		
Pancreas		Mesothelioma Nos	
Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
Prostate		Mesothelioma Nos	
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 3-14+14.1		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-6		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 640

DOSE: UNTREATD CONTROL

DISP: Dead

HISTO: A852534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Adrenal Gland - Cortex	Adrenal Gland - Medulla
------------------------	-------------------------

OBSERVATIONS

Brain		Inflammation	Acute, Multifocal, Mild
Heart	Valve	Inflammation	Acute, Marked
		Inflammation	Chronic, Moderate
Intestine Large	Cecum	Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 6-13			
Kidney		Inflammation	Acute, Multifocal, Moderate
		Nephropathy	Mild
Liver	Centrilobular	Hepatodiaphragmatic Nodule	
Note: NECROSIS TGLs = 10-2		Necrosis	Moderate
Note: ANOM HEPAT LOB TGLs = 8-14			
Lung		Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 7-3			
Mesentery		Autolysis	Marked
Pancreas		Atrophy	Focal, Mild
		Autolysis	Moderate
	Artery	Inflammation	Chronic, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate		Inflammation	Chronic, Mild
Spleen		Congestion	Mild
Note: CONGESTION TGLs = 3-2			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 35

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 640

**DOSE:** UNTREATD CONTROL

**DISP:** Dead

**HISTO:** A852534

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1,2-6

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 631

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Brain		Compression	Mild
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-2			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5,6-4			
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA TGLs = 1-7			
Nose		Foreign Body	Mild
	Mucosa	Inflammation	Chronic Active, Moderate
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-1			
Preputial Gland		Adenoma	
Prostate		Inflammation	Chronic, Moderate
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 36

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 631

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852535

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: ADENOMA      TGLs = 3-6

Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Inflammation	Chronic, Mild
		Mineralization	Minimal
Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Moderate
	Mucosa	Inflammation	Chronic Active, Marked
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Preputial Gland		Inflammation	Acute, Minimal
Prostate		Inflammation	Chronic, Mild
Testes	Bilateral, Interstit Cell	Adenoma	

Note: ADENOMA TGLs = 1,2-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Mammary Gland	Nose
Parathyroid Gland	Pituitary Gland	Prostate	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Hyperplasia	Moderate
Epididymis		Inflammation	Chronic, Minimal
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
Note: ANOM HEPAT LOB TGLs = 4-15			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 2-13			
Pancreas		Atrophy	Focal, Minimal
Preputial Gland		Inflammation	Acute, Minimal
Salivary Glands		Atrophy	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 563

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Minimal
	Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-61		
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-2		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Hyperplasia	Minimal
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Prostate		Inflammation	Chronic, Moderate
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: FIBROSIS	TGLs = 4,7-2		
Note: LEUKEMIA MONUC	TGLs = 5-2		
Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 640

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-61		
Bone Marrow		Leukemia Mononuclear	
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Jejunum	Leiomyoma	
Note: LEIOMYOMA	TGLs = 6-13		
Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-2		
Lymph Node	Pancreatic	Congestion	Mild
	Pancreatic	Ectasia	Moderate
	Pancreatic	Hyperplasia	Mild
Note: CONGESTION	TGLs = 4-14		
Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
	Mucosa	Inflammation	Chronic Active, Moderate
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Prostate		Inflammation	Chronic, Minimal
Spleen		Leukemia Mononuclear	
		Necrosis	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 40

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 640

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852539

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: LEUKEMIA MONUC TGLs = 3-2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-6

Thyroid Gland

Follicle

Dilatation

Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
[ Pheochromocytoma Benign TGLS = 3-14 ]			
Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mandibular	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 4-7+7.1		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-13		
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Lymph Node - Mandibular
Mammary Gland	Nose	Salivary Glands	Seminal Vesicle
Skin	Spleen	Trachea	Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-5		
Liver		Hyperplasia	Focal, Mild
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Mild
Pancreas		Atrophy	Focal, Mild
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-1		
Preputial Gland		Inflammation	Chronic, Minimal
Prostate		Inflammation	Chronic, Mild
Stomach	Forestomach	Mineralization	Mild
	Glandular	Mineralization	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-6		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland	Pituitary Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Medulla	Hypertrophy Pheochromocytoma Benign	Minimal
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney Note: NEPHROPATHY TGLs = 2-5		Nephropathy	Marked
Liver	Bile Duct	Hyperplasia	Minimal
Nose	Nasolacrim Dct	Inflammation	Chronic, Moderate
Pancreas		Atrophy	Focal, Minimal
Preputial Gland		Inflammation	Chronic, Minimal
Prostate		Inflammation	Chronic, Minimal
Testes Note: ADENOMA TGLs = 1-6	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicular Cel C Cell	Adenoma Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney	Renal Tubule	Hyperplasia	Minimal
	Epithelium, Renal Tubule	Hypertrophy	Focal, Moderate
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
Nose	Nasolacrim Dct	Inflammation	Chronic, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-2		
Stomach	Glandular	Mineralization	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 448

DOSE: UNTREATD CONTROL

DISP: Dead

HISTO: A84032001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Skin
Stomach - Forestomach	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Bone Marrow		Autolysis	Marked
Epididymis		Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 2-21		
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Mild
Liver		Fibrous Histiocytoma	
		Necrosis	Marked
Note: FIB HISTIOCYT	TGLs = 6-5		
Lung		Thrombosis	Moderate
Lymph Node	Iliac	Fibrous Histiocytoma	
	Mesenteric	Fibrous Histiocytoma	
	Renal	Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 7,8,9-2+22+24+25		
Mesentery		Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 4-22		
Pancreas		Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 5-23		
Prostate		Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 11-21		
Seminal Vesicle		Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 2-21		
Spleen		Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 15-2.1		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 45

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 448

**DOSE:** UNTREATD CONTROL

**DISP:** Dead

**HISTO:** A84032001

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Stomach	Glandular	Fibrous Histiocytoma	
	Glandular	Ulcer	Mild
Note: FIB HISTIOCYT TGLs = 12,13,14-6			
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-9			
Thymus		Fibrous Histiocytoma	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 728

DOSE: UNTREATD CONTROL

DISP: Dead

HISTO: A852545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
[ Pheochromocytoma Benign TGLS = 4-14 ]			
Bone Marrow		Autolysis	Moderate
Heart		Inflammation	Chronic, Minimal
Intestine Large	Cecum	Autolysis	Moderate
	Colon	Autolysis	Moderate
	Rectum	Autolysis	Moderate
	Cecum	Inflammation	Acute, Marked
Intestine Small	Duodenum	Autolysis	Moderate
	Ileum	Autolysis	Marked
	Jejunum	Autolysis	Marked
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-5+13		
Liver	Bile Duct	Hyperplasia	Marked
Note: HYPERPLASIA	TGLs = 7-2		
Lung		Congestion	Moderate
Lymph Node	Mesenteric	Autolysis	Moderate
Mesentery		Inflammation	Acute, Moderate
Pancreas		Atrophy	Focal, Minimal
		Autolysis	Moderate
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Prostate		Inflammation	Acute, Moderate
Spleen		Hematopoietic Cell Proliferation Granulocytic	Mild
Note: HEMA CL PR GRN	TGLs = 3-2		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 46

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 728

**DOSE:** UNTREATD CONTROL

**DISP:** Dead

**HISTO:** A852545

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 2-6

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA

TGLs = 11-3

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Mammary Gland	Nose	Parathyroid Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Brain	Meninges	Granular Cell Tumor Benign	
Note: GRA CL TUM BGN TGLs = 3-1			
Heart		Inflammation	Chronic, Minimal
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 2-6			
Liver		Hypertrophy	Focal, Mild
		Leukemia Mononuclear	
Pancreas	Acinar Cell	Adenoma	
		Atrophy	Focal, Mild
	Artery	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
Note: MALFORMATION PARS NERVOSA			
Preputial Gland		Inflammation	Chronic, Minimal
Spleen		Congestion	Mild
		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 564

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland	Nose
Parathyroid Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 1-13			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
Prostate		Inflammation	Chronic, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Nose	Parathyroid Gland
Prostate	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mandibular	Salivary Glands
-------------------------	-----------------

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Minimal
Intestine Large	Colon	Hyperplasia	Lymphoid, Minimal
Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 3-5		
Liver		Basophilic Focus	Multiple
		Eosinophilic Focus	Multiple
		Leukemia Mononuclear	
		Thrombosis	Mild
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS	TGLs = 4-14		
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-13		
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 49

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** UNTREATD CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A852548

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 513

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla Cortex	Pheochromocytoma Benign Vacuolization Cytoplasmic	Mild
[ Vacuolization Cytoplasmic TGLS = 6,7-8 ]			
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-2		
Lung	Alveolus	Infiltration Cellular Leukemia Mononuclear	Histiocyte, Mild
Note: LEUKEMIA MONUC	TGLs = 9,10-3		
Lymph Node	Mandibular Mediastinal Mesenteric Pancreatic	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1,3,11-3+7+13		
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hypertrophy	Minimal Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4,5-2+14		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		
Thymus		Leukemia Mononuclear	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 50

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 513

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852549

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Lung	Lymph Node - Mandibular	Nose
Parathyroid Gland	Pituitary Gland	Salivary Glands	Seminal Vesicle
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Epididymis		Mesothelioma Nos	
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
	Rectum	Parasite Metazoan	
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Mesothelioma Malignant	
Liver	Hepatocyte	Nephropathy	Moderate
Mesentery		Degeneration	Cystic, Mild
		Mesothelioma Nos	
Note: MESOTHELIO NOS TGLs = 7-15			
Pancreas		Mesothelioma Nos	
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 4-14			
Prostate		Mesothelioma Nos	
Skin		Hyperkeratosis	Marked
Note: HYPERKERATOSIS TGLs = 3-13+13.1			
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Nos	
Note: ADENOMA TGLs = 6,8-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 61

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 5.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852560

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 718

DOSE: 5.0%

DISP: Moribund

HISTO: A852561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lung
Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland	Pituitary Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Brain		Astrocytoma Nos	
Heart		Inflammation	Chronic, Mild
	Atrium Lft	Thrombosis	Moderate
Note: THROMBUS TGLs = 9-2			
Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 7-16			
Kidney		Nephropathy	Mild
Liver		Hypertrophy	Focal, Minimal
Note: HYPERTROPHY TGLs = 8-17			
Lymph Node	Deep Cervical	Lymphoma Malignant Histiocytic	
Note: LYMPH MAL HIST TGLs = 4-14			
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 6-15			
Nose	Mucosa	Inflammation	Chronic Active, Minimal
Pancreas		Atrophy	Focal, Mild
Prostate		Inflammation	Acute, Moderate
Skin		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION TGLs = 3-13			
Stomach	Forestomach	Inflammation	Acute, Mild
Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 62

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 718

**DOSE:** 5.0%

**DISP:** Moribund

**HISTO:** A852561

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: ADENOMA      TGLs = 5-6

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Mammary Gland	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Trachea	Urinary Bladder		

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 5-5		
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Hyperplasia	Reticulum Cell, Mild
	Mesenteric	Hyperplasia	Reticulum Cell, Mild
Note: HYPERPLASIA	TGLs = 6-4		
Note: HEMORRHAGE	TGLs = 7-3		
Mesentery		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 4-13		
Nose		Inflammation	Chronic, Minimal
Prostate		Inflammation	Acute, Minimal
Spleen		Atrophy	Moderate
Note: ATROPHY	TGLs = 8-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 63

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 5.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852562

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Mammary Gland	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL TGLs = 7-8			
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 8-5			
Liver		Ectasia	Mild
Lymph Node	Mandibular	Hyperplasia	Minimal
Mesentery	Artery	Inflammation	Chronic, Mild
Nose		Foreign Body	Mild
	Mucosa	Inflammation	Chronic Active, Mild
Skin	Face	Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4,5-6			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Bone		Fibrous Osteodystrophy	Minimal
Heart		Inflammation	Chronic, Minimal
Note: INFLAMMATION TGLs = 7-2			
Kidney	Cortex	Cyst	Mild
	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 5-5			
Note: CYST TGLs = 6-5			
Liver	Hepatocyte	Degeneration	Cystic, Minimal
Lung		Hyperplasia	Lymphoid, Minimal
Nose		Inflammation	Chronic, Minimal
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic, Minimal
Prostate		Inflammation	Chronic, Minimal
Seminal Vesicle	Epithelium	Degeneration	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-6			
Thymus		Thymoma Benign	
Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Parathyroid Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Hypoplasia	Mild
Heart		Inflammation	Chronic, Minimal
	Atrium Lft	Thrombosis	Marked
Note: THROMBUS TGLs = 11-2			
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
	Ileum	Pigmentation	Minimal
Note: HYPERPLASIA TGLs = 9-4			
Kidney		Nephropathy	Moderate
Liver		Hypertrophy	Focal, Mild
	Centrilobular	Vacuolization Cytoplasmic	Mild
Lung		Inflammation	Chronic, Minimal
Nose		Inflammation	Chronic, Minimal
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic, Minimal
Spleen		Pigmentation	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5,6-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Rectum  
Nose  
Stomach - Forestomach  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Small - Duodenum  
Salivary Glands  
Stomach - Glandular

Bone  
Intestine Large - Cecum  
Islets, Pancreatic  
Seminal Vesicle  
Thyroid Gland

Bone Marrow  
Intestine Large - Colon  
Lymph Node - Mandibular  
Spleen  
Trachea

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Brain  
Note: COMPRESSION TGLs = 14-2  
Heart  
Intestine Small  
Kidney  
Note: NEPHROPATHY TGLs = 9-5  
Note: CARCINOMA TGLs = 10-16  
Liver  
Note: ANOM HEPAT LOB TGLs = 11-17  
Lung  
Mammary Gland  
Note: HYPERPLASIA TGLs = 4-7  
Pancreas  
Note: ADENOMA TGLs = 8-15  
Parathyroid Gland  
Note: HYPERPLASIA TGLs = 12-3  
Pituitary Gland  
Note: ADENOMA TGLs = 13-1  
Preputial Gland

Ileum  
Jejunum  
Renal Tubule  
Acinar Cell  
Pars Distalis

Compression  
Inflammation  
Hyperplasia  
Pigmentation  
Carcinoma  
Nephropathy  
Hepatodiaphragmatic Nodule  
Hyperplasia  
Hyperplasia  
Adenoma  
Hyperplasia  
Adenoma  
Adenoma

Mild  
Chronic, Minimal  
Lymphoid, Minimal  
Minimal  
Marked  
Lymphoid, Minimal  
Mild  
Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 67

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 5.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852566

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: ADENOMA TGLs = 6-8

Prostate

Skin

Sebaceous Gl

Inflammation

Chronic, Moderate

Inflammation

Chronic, Mild

Adenoma

Basal Cell Carcinoma

Note: BASAL CEL CARC TGLs = 5-14

Note: ADENOMA TGLs = 3-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 7-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Complex	
Heart		Inflammation	Chronic, Mild
Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 7-5		
Liver		Clear Cell Focus	
Lung		Hyperplasia	Lymphoid, Minimal
Nose	Glands, Mucosa	Exudate	Mild
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild
Preputial Gland		Carcinoma	
		Inflammation	Chronic, Minimal
Note: CARCINOMA	TGLs = 4-14		
Skin		Keratoacanthoma	
	Subcut Tiss	Lipoma	
Note: LIPOMA	TGLs = 5-15		
Note: KERATOACANTHMA	TGLs = 3-13		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 6-6		
Thyroid Gland	Follicular Cel	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 68

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 5.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852567

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Lymph Node - Mandibular
Mammary Gland	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
	Ileum	Pigmentation	Minimal
Islets, Pancreatic		Carcinoma	
Note: CARCINOMA	TGLs = 5-13		
Kidney		Nephropathy	Moderate
Liver		Hypertrophy	Focal, Minimal
Lung		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC	TGLs = 6-14		
Lymph Node	Mesenteric	Pigmentation	Mild
Nose		Foreign Body	Mild
	Respirat Epith	Hyperplasia	Mild
	Mucosa	Inflammation	Chronic Active, Marked
Pancreas		Atrophy	Focal, Minimal
Preputial Gland		Inflammation	Chronic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3,4-6		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Mild
Brain	Chor Plexus	Infiltration Cellular	Lymphocyte, Mild
Eye	Bilateral, Lens	Cataract	Marked
Note: CATARACT	TGLs = 1-13+13.1	Bilateral, Retina	Degeneration
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Liver	Hepatocyte	Degeneration	Cystic, Minimal
Lung		Hyperplasia	Focal, Mild
Pancreas		Hyperplasia	Lymphoid, Minimal
Testes	Bilateral, Interstit Cell	Atrophy	Focal, Minimal
Note: ADENOMA	TGLs = 4-6	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Seminal Vesicle
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney	Renal Tubule	Adenoma	
		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Hyperplasia	Focal, Minimal
		Inflammation	Granulomatous, Minimal
Lung	Perivascular	Infiltration Cellular	Lymphocyte, Mild
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pancreas		Cytoplasmic Alteration	Minimal
Spleen		Congestion	Mild
Note: CONGESTION	TGLs = 5-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3,4-6		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 72	<b>TRT#:</b> 3 <b>DOSE:</b> 5.0%	<b>SEX:</b> Male <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 513 <b>HISTO:</b> A852571
----------------------	-------------------------------------	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Epididymis	Mammary Gland		
------------	---------------	--	--

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Inflammation	Chronic, Minimal
Kidney		Mesothelioma Malignant	
		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
		Mesothelioma Nos	
Note: MESOTHELIO NOS TGLs = 6-15			
Mesentery		Mesothelioma Nos	
Note: MESOTHELIO NOS TGLs = 5-14			
Pancreas		Mesothelioma Nos	
Pituitary Gland	Pars Distalis	Cyst	Minimal
Prostate		Inflammation	Chronic, Mild
Skeletal Muscle	Abdominal	Mesothelioma Nos	
Note: MESOTHELIO NOS TGLs = 3-13			
Spleen		Mesothelioma Nos	
Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Nos	
Note: ADENOMA TGLs = 4-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:18

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

**Lab:** SRI

---

**ANIMAL ID:** 72

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 513

**DOSE:** 5.0%

**DISP:** Moribund

**HISTO:** A852571

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Liver	Lung	Lymph Node - Mandibular	Mammary Gland
Parathyroid Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Inflammation	Chronic, Mild
	Atrium Lft	Thrombosis	Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate		Cyst	Mild
		Inflammation	Chronic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 412

DOSE: 5.0%

DISP: Dead

HISTO: A84032000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla  
Esophagus  
Intestine Small - Ileum  
Pancreas  
Prostate  
Stomach - Glandular  
Urinary Bladder

Bone  
Intestine Large - Colon  
Islets, Pancreatic  
Parathyroid Gland  
Salivary Glands  
Testes

Bone Marrow  
Intestine Large - Rectum  
Lymph Node - Mandibular  
Pituitary Gland  
Skin  
Thyroid Gland

Epididymis  
Intestine Small - Duodenum  
Mammary Gland  
Preputial Gland  
Stomach - Forestomach  
Trachea

OBSERVATIONS

Adrenal Gland  
Brain  
Note: LEUKEMIA MONUC TGLs = 7,8-1  
Heart

Cortex

Leukemia Mononuclear  
Leukemia Mononuclear

Inflammation  
Leukemia Mononuclear

Chronic, Minimal

Note: LEUKEMIA MONUC TGLs = 6-2.1  
Intestine Large  
Intestine Small  
Kidney

Cecum  
Jejunum

Autolysis  
Autolysis  
Leukemia Mononuclear  
Nephropathy  
Leukemia Mononuclear

Mild  
Marked  
Mild

Liver  
Note: LEUKEMIA MONUC TGLs = 4-5  
Lung  
Nose  
Seminal Vesicle  
Spleen  
Note: LEUKEMIA MONUC TGLs = 3-2  
Thymus

Leukemia Mononuclear  
Autolysis  
Dilatation  
Leukemia Mononuclear  
Leukemia Mononuclear

Mild  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
	Ileum	Pigmentation	Minimal
	Jejunum	Pigmentation	Minimal
Note: HYPERPLASIA TGLs = 5-4			
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 4-13			
Lung		Inflammation	Chronic, Mild
Lymph Node	Mesenteric	Pigmentation	Moderate
Prostate		Inflammation	Chronic, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-6			
Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Carcinoma	
Note: CARCINOMA TGLs = 6-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Bilateral, Medulla	Pheochromocytoma Benign	
[ Hyperplasia TGLS = 5-8+13 ]			
Heart		Inflammation	Chronic, Moderate
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Lymph Node		Leukemia Mononuclear	
Nose		Foreign Body	Mild
	Mucosa	Inflammation	Chronic Active, Minimal
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Preputial Gland		Inflammation	Chronic, Minimal
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-6			
Thyroid Gland	C Cell	Adenoma	
		Ultimobranchial Cyst	

PRIMARY CAUSE OF DEATH

-

Animal Note: THIS IS A STAGE ONE MONONUCLEAR CELL LEUKEMIA.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:18

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Pancreas	Parathyroid Gland	Pituitary Gland	Prostate
Salivary Glands	Seminal Vesicle	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Hypoplasia	Moderate
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 8-5			
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
Note: LEUKEMIA MONUC TGLs = 9-2			
Lymph Node	Mandibular	Hyperplasia	Mild
Mammary Gland	Duct	Ectasia	Mild
Preputial Gland		Inflammation	Chronic, Minimal
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 3-13			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6,7-2			
Stomach	Glandular	Mineralization	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4,5-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow		Leukemia Mononuclear	
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Hyperplasia	Lymphoid, Minimal
	Colon	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 7-4			
Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-2			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8,10-4+7			
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA TGLs = 3-13			
Nose		Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hemorrhage	Mild
Prostate		Inflammation	Chronic, Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 78

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 5.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852577

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 4-6

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Pancreas	Parathyroid Gland	Prostate
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla Cortex	Pheochromocytoma Benign Vacuolization Cytoplasmic Inflammation	Minimal Chronic, Mild
Heart			
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 5-5			
Liver	Bile Duct	Clear Cell Focus Hyperplasia Inflammation Vacuolization Cytoplasmic	Minimal Granulomatous, Minimal Minimal
Note: CLEAR CL FOCUS TGLs = 6-14			
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Cyst	Minimal
Preputial Gland		Inflammation	Chronic, Minimal
Skin	Face	Neurofibroma	
Note: NEUROFIBROMA TGLs = 3-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Lung	Parathyroid Gland
Preputial Gland	Salivary Glands	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Brain		Compression	Mild
Heart		Inflammation	Chronic, Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 6-5		
Liver	Centrilobular	Vacuolization Cytoplasmic	Mild
Lymph Node	Mandibular	Congestion	Moderate
	Mandibular	Hyperplasia	Mild
Note: CONGESTION	TGLs = 5-7+7.1		
Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Moderate
Note: ECTASIA	TGLs = 4-7+7.1		
Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 7-1		
Prostate		Inflammation	Chronic, Mild
Seminal Vesicle		Dilatation	Mild
Skin	Face	Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 3-13		
Stomach	Glandular, Mucosa	Cyst	Minimal
Testes	Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 80

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 5.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852579

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Medulla	Hyperplasia Pheochromocytoma Benign	Mild
Heart	Atrium Lft	Inflammation Thrombosis	Chronic, Moderate Marked
Note: THROMBUS TGLs = 6-2			
Intestine Large	Colon	Hyperplasia	Lymphoid, Minimal
Kidney		Nephropathy	Moderate
Liver		Eosinophilic Focus Hepatocellular Adenoma	
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
Pancreas		Atrophy	Focal, Minimal
Prostate		Inflammation	Acute, Minimal
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 3-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mandibular	Ectasia	Moderate
	Mesenteric	Pigmentation	Mild
Nose		Fungus	
	Mucosa	Inflammation	Chronic Active, Marked
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Nose	Pancreas	Preputial Gland
Seminal Vesicle	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Mineralization	Minimal
		Nephropathy	Moderate
Liver		Hepatocellular Carcinoma	
Note: HEPATOCLR CARC	TGLs = 6-16		
Lymph Node	Mandibular	Hyperplasia	Mild
	Mesenteric	Pigmentation	Mild
Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS	TGLs = 3-15		
Parathyroid Gland		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-1		
Prostate		Inflammation	Chronic, Moderate
Salivary Glands	Acinar Cell	Cytoplasmic Alteration	Minimal
		Vacuolization Cytoplasmic	Mild
Note: VACUOLIZ CYTO	TGLs = 1-7		
Skin		Basal Cell Carcinoma	
Note: BASAL CEL CARC	TGLs = 2-14+14.1		
Stomach	Glandular	Mineralization	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 83

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 5.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852582

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: ADENOMA      TGLs = 4-6

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 664

DOSE: 5.0%

DISP: Dead

HISTO: A852583

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Mammary Gland  
Salivary Glands  
Thymus

Bone  
Nose  
Skin  
Thyroid Gland

Brain  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Esophagus  
Pituitary Gland  
Stomach - Glandular

**MISSING**

Epididymis  
Prostate

Islets, Pancreatic  
Seminal Vesicle

Pancreas  
Testes

Preputial Gland  
Urinary Bladder

**OBSERVATIONS**

Adrenal Gland  
Bone Marrow  
Heart  
Intestine Large  
  
Intestine Small  
  
Kidney  
Liver  
Lung  
Lymph Node  
Spleen

Bilateral, Medulla  
  
Cecum  
Colon  
Rectum  
Duodenum  
Ileum  
Jejunum

Pheochromocytoma Benign  
Autolysis  
Inflammation  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Hemorrhage  
Autolysis

Marked  
Chronic, Minimal  
Marked  
Marked  
Marked  
Marked  
Marked  
Marked  
Moderate  
Moderate  
Mild  
Moderate  
Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: ANIMAL TOO AUTOLYZED TO RETRIEVE MISSING TISSUES.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Inflammation	Chronic, Minimal
	Atrium Lft	Thrombosis	Moderate
Note: THROMBUS TGLs = 9-2			
Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 7-5+16			
Liver		Cyst	Mild
Note: CYST TGLs = 8-15			
Mammary Gland		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-13			
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 4-14			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 11-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5,6-6			
Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 10-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Bone		Fibrous Osteodystrophy	Minimal
Brain		Compression	Mild
Eye	Cornea	Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 3-13		
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
	Jejunum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 7-5+16		
Liver		Basophilic Focus	Multiple
		Hyperplasia	Focal, Mild
		Hypertrophy	Focal, Mild
Lymph Node	Mesenteric	Pigmentation	Mild
Mammary Gland		Hyperplasia	Mild
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pancreas		Hyperplasia	Mild
	Artery	Inflammation	Chronic, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 8-1		
Preputial Gland		Adenoma	
		Inflammation	Chronic, Moderate
Note: ADENOMA	TGLs = 6-15		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 86

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 5.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852585

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Prostate		Inflammation	Chronic, Marked
Skin	Tail	Cyst Epithelial Inclusion	
Note: CYST EPITH INC	TGLs = 5-14		
Spleen		Fibrosis	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Adenoma	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 687

DOSE: 5.0%

DISP: Moribund

HISTO: A852586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Pancreas	Parathyroid Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 5-5		
Liver		Eosinophilic Focus	
Lymph Node	Mesenteric	Pigmentation	Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3-13		
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Preputial Gland		Inflammation	Chronic, Minimal
Skin		Squamous Cell Papilloma	
Note: PAPILOMA SQUA	TGLs = 7-14		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-6		
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 688

DOSE: 5.0%

DISP: Moribund

HISTO: A852587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Mammary Gland
Parathyroid Gland	Pituitary Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart	Atrium Lft	Inflammation	Chronic, Moderate
Note: THROMBUS	TGLs = 11-2	Thrombosis	Mild
Kidney		Nephropathy	Minimal
Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Hypertrophy	Multifocal, Mild
Lymph Node	Mesenteric	Congestion	Minimal
Note: CONGESTION	TGLs = 9-4	Hyperplasia	Reticulum Cell, Mild
Note: HYPERPLASIA	TGLs = 4-14		
Mesentery	Fat	Necrosis	Minimal
Note: NECROSIS	TGLs = 10-16		
Nose	Mucosa	Inflammation	Chronic Active, Mild
Pancreas	Duct	Cyst	Mild
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 5-15	Inflammation	Chronic, Moderate
Prostate		Inflammation	Chronic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 7-6		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 88

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 688

**DOSE:** 5.0%

**DISP:** Moribund

**HISTO:** A852587

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 514

DOSE: 5.0%

DISP: Moribund

HISTO: A852588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Islets, Pancreatic  
Nose  
Seminal Vesicle  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Skin  
Thymus

Bone  
Esophagus  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Prostate  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Mammary Gland  
Salivary Glands  
Stomach - Forestomach  
Trachea

OBSERVATIONS

Heart  
Intestine Large  
Kidney  
Liver  
Pancreas  
Pituitary Gland  
Preputial Gland  
Note: ADENOMA TGLs = 1-13  
Testes  
Note: ADENOMA TGLs = 4-6

Rectum  
Bile Duct  
Pars Distalis  
Bilateral, Interstit Cell

Inflammation  
Parasite Metazoan  
Nephropathy  
Hyperplasia  
Atrophy  
Hypertrophy  
Adenoma  
Adenoma

Chronic, Mild  
Minimal  
Minimal  
Focal, Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
	Bilateral, Medulla	Pheochromocytoma Benign	
Brain		Astrocytoma Nos	
Heart		Inflammation	Chronic, Mild
	Atrium Lft	Thrombosis	Moderate
Note: THROMBUS	TGLs = 5-2		
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Hyperplasia	Focal, Minimal
Lymph Node	Mesenteric	Pigmentation	Mild
Nose		Fungus	
	Mucosa	Inflammation	Chronic Active, Mild
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Prostate		Inflammation	Chronic, Minimal
Skin	Subcut Tiss	Abscess	Moderate
Note: ABSCESS	TGLs = 3-13		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-6		
Thyroid Gland	Follicular Cel	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Thymus	Trachea		

OBSERVATIONS

Adrenal Gland	Cortex Bilateral, Medulla	Hypertrophy Pheochromocytoma Benign	Mild
[ Hypertrophy TGLS = 5-8+14 ]			
Heart		Inflammation	Chronic, Minimal
Intestine Large	Colon	Parasite Metazoan	
Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Clear Cell Focus	
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 4-13			
Pituitary Gland	Pars Distalis	Adenoma	
Stomach	Glandular	Mineralization	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-6			
Thyroid Gland	Follicle	Dilatation	Minimal
Urinary Bladder		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 5.0%

DISP: Dead

HISTO: A852591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Inflammation	Chronic, Moderate
	Atrium Lft	Thrombosis	Moderate
Intestine Large	Cecum	Autolysis	Moderate
	Colon	Autolysis	Moderate
	Rectum	Autolysis	Moderate
Intestine Small	Duodenum	Autolysis	Moderate
	Ileum	Autolysis	Marked
	Jejunum	Autolysis	Marked
Islets, Pancreatic		Autolysis	Marked
Kidney		Congestion	Moderate
		Nephropathy	Mild
Liver		Congestion	Moderate
		Hepatodiaphragmatic Nodule	
	Centrilobular	Necrosis	Moderate
Note: ANOM HEPAT LOB TGLs = 7-2			
Pancreas		Autolysis	Marked
Pituitary Gland	Pars Distalis	Cyst	Moderate
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 3-13			
Testes	Bilateral, Interstit Cell	Adenoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 92

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 5.0%

**DISP:** Dead

**HISTO:** A852591

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: ADENOMA      TGLs = 4-6

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Parathyroid Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Nose	Pituitary Gland
------	-----------------

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Ectasia	Minimal
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS	TGLs = 3-13		
Pancreas	Artery	Inflammation	Chronic, Marked
Preputial Gland		Inflammation	Acute, Minimal
Prostate		Inflammation	Acute, Minimal
Stomach	Forestomach	Hyperplasia	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-6		
Thyroid Gland	Follicular Cel	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Mammary Gland	Nose	Parathyroid Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Ear	Pinna	Neurofibroma	
Note: NEUROFIBROMA	TGLs = 4-14		
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 6-5		
Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	Moderate
Prostate		Inflammation	Chronic, Minimal
Skin	Tail	Cyst Epithelial Inclusion	
	Tail	Hyperkeratosis	Mild
Note: HYPERKERATOSIS	TGLs = 3-13		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5-6		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 676

DOSE: 5.0%

DISP: Moribund

HISTO: A852594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Pituitary Gland
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
	Hepatocyte	Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Focal, Moderate
Note: HYPERPLASIA TGLs = 6-14			
Lung		Inflammation	Granulomatous, Minimal
Lymph Node	Mesenteric	Pigmentation	Minimal
Pancreas		Atrophy	Focal, Minimal
Parathyroid Gland		Adenoma	
Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 3-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Mammary Gland
Pancreas	Pituitary Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
Nose		Foreign Body	Mild
	Mucosa	Inflammation	Chronic Active, Mild
Parathyroid Gland		Hyperplasia	Mild
Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
Note: ADENOMA TGLs = 3-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-6			
Thyroid Gland	Follicle	Dilatation	Mild
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 618

DOSE: 5.0%

DISP: Moribund

HISTO: A852596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mandibular
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
Brain		Compression	Mild
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
	Jejunum	Hyperplasia	Lymphoid, Mild
	Jejunum	Pigmentation	Mild
Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Marked
Lymph Node	Mesenteric	Pigmentation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-1		
Prostate		Inflammation	Chronic, Moderate
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Acute, Mild
Testes	Bilateral, Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 618

DOSE: 5.0%

DISP: Moribund

HISTO: A852597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Parathyroid Gland	Preputial Gland	Seminal Vesicle	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Minimal
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Mild
Liver		Inflammation	Granulomatous, Minimal
Lung		Hyperplasia	Lymphoid, Mild
Mammary Gland		Fibroma	
Note: FIBROMA	TGLs = 3-13		
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic, Mild
Salivary Glands		Atrophy	Minimal
Spleen		Hematopoietic Cell Proliferation Granulocytic	Mild
Note: HEMA CL PR GRN	TGLs = 6-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4,5-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Esophagus  
Intestine Small - Jejunum  
Mammary Gland  
Salivary Glands  
Stomach - Forestomach  
Urinary Bladder

Bone  
Intestine Large - Cecum  
Islets, Pancreatic  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular

Brain  
Intestine Large - Rectum  
Lung  
Pituitary Gland  
Skin  
Thymus

Epididymis  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Preputial Gland  
Spleen  
Trachea

OBSERVATIONS

Adrenal Gland  
Bone Marrow  
Heart  
Intestine Large  
Intestine Small  
Kidney

Bilateral, Medulla  
  
Colon  
Ileum  
Renal Tubule

Pheochromocytoma Benign  
Myelofibrosis  
Inflammation  
Parasite Metazoan  
Hyperplasia  
Hyperplasia  
Nephropathy

Minimal  
Chronic, Mild  
  
Lymphoid, Mild  
Mild  
Moderate

Note: NEPHROPATHY TGLs = 4-5  
Liver

Clear Cell Focus  
Hepatodiaphragmatic Nodule  
Hyperplasia

Minimal

Note: ANOM HEPAT LOB TGLs = 6-14

Nose  
Pancreas  
Prostate  
Testes

Bile Duct  
Nasolacrim Dct  
Artery  
  
Bilateral, Interstit Cell

Inflammation  
Inflammation  
Inflammation  
Adenoma

Chronic, Mild  
Chronic, Mild  
Chronic, Mild

Note: ADENOMA TGLs = 3-6  
Thyroid Gland

Dilatation

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Islets, Pancreatic	Lymph Node - Mandibular
Parathyroid Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Hyperplasia	Mild
Heart		Inflammation	Chronic, Minimal
Intestine Large	Cecum	Parasite Metazoan	
Intestine Small	Jejunum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 5-5		
Liver	Hepatocyte	Degeneration	Cystic, Mild
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN	TGLs = 6-3.1		
Lymph Node	Mesenteric	Pigmentation	Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3-13		
Nose		Inflammation	Chronic, Minimal
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Chronic, Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-6		
Thyroid Gland	Follicular Cel	Carcinoma	
Note: CARCINOMA	TGLs = 7-3		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 3

DOSE: 5.0%

SEX: Male

DISP: Moribund

DAY ON TEST: 648

HISTO: A852600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Epididymis
Esophagus	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Lung	Lymph Node - Mandibular	Mammary Gland	Nose
Pituitary Gland	Preputial Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Bone Marrow		Hypoplasia	Moderate
Heart	Atrium Lft	Inflammation	Chronic, Mild
Note: THROMBUS TGLs = 10-2		Thrombosis	Marked
Intestine Large	Cecum	Diverticulum	Moderate
	Colon	Hyperplasia	Adenomatous, Mild
Intestine Small	Ileum	Pigmentation	Minimal
Islets, Pancreatic		Adenoma	
Kidney	Cortex	Cyst	Mild
Note: CYST TGLs = 5-5		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 6-5			
Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mesenteric	Congestion	Mild
	Pancreatic	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 4-14			
Note: CONGESTION TGLs = 8-4			
Pancreas		Atrophy	Focal, Minimal
Prostate		Inflammation	Chronic, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 101

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 648

**DOSE:** 5.0%

**DISP:** Moribund

**HISTO:** A852600

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 3-6

Thyroid Gland

C Cell

Adenoma

C Cell

Carcinoma

Note: CARCINOMA

TGLs = 11-3

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852601

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Pituitary Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Heart	Atrium Lft	Inflammation	Chronic, Minimal
	Ileum	Thrombosis	Moderate
Intestine Small		Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Granulomatous, Minimal
Prostate		Inflammation	Chronic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		
Thyroid Gland	Follicular Cel	Carcinoma	
Note: CARCINOMA	TGLs = 4-3		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 3

DOSE: 5.0%

SEX: Male

DISP: Dead

DAY ON TEST: 696

HISTO: A852602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Salivary Glands
Seminal Vesicle	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone Marrow		Fibrous Histiocytoma	
Epididymis		Granuloma Sperm	Mild
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 9-5		
Liver		Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 11-2		
Lung		Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 12-3		
Pancreas		Atrophy	Focal, Mild
Preputial Gland		Hyperplasia	Moderate
		Inflammation	Acute, Moderate
Note: HYPERPLASIA	TGLs = 3-13		
Prostate		Inflammation	Chronic, Minimal
Skin	Subcut Tiss	Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 4-14		
Spleen		Fibrous Histiocytoma	
Note: FIB HISTIOCYT	TGLs = 7,8-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 5,6-6		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 103

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 696

**DOSE:** 5.0%

**DISP:** Dead

**HISTO:** A852602

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 612

DOSE: 5.0%

DISP: Moribund

HISTO: A852603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Pancreas
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla Cortex	Hyperplasia Hyperplasia	Mild Minimal
Bone Marrow		Hemorrhage	Mild
Brain	Meninges	Mixed Tumor Malignant	Metastatic (Salivary Glands)
Esophagus		Mixed Tumor Malignant	Metastatic (Salivary Glands)
Heart		Inflammation	Chronic, Mild
		Mixed Tumor Malignant	Metastatic (Salivary Glands)
Kidney		Nephropathy	Mild
Liver		Inflammation	Acute, Minimal
Nose		Foreign Body	Mild
	Mucosa	Inflammation	Chronic Active, Mild
Parathyroid Gland		Mixed Tumor Malignant	Metastatic (Salivary Glands)
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Preputial Gland		Inflammation	Chronic, Minimal
Prostate		Inflammation	Chronic, Minimal
Salivary Glands		Mixed Tumor Malignant	
Note: MIXD TUMOR MAL TGLs = 4,6-13+14			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-6			
Thyroid Gland		Mixed Tumor Malignant	Metastatic (Salivary Glands)

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852604

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Seminal Vesicle
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Mild
Heart		Inflammation	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Liver	Hepatocyte	Degeneration	Cystic, Mild
		Eosinophilic Focus	Multiple
	Bile Duct	Hyperplasia	Mild
Pituitary Gland	Pars Nervosa	Adenoma	
	Pars Nervosa	Cyst	Mild
Preputial Gland		Inflammation	Acute, Mild
Prostate		Inflammation	Chronic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Parathyroid Gland	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Seminal Vesicle	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Hyperplasia	Minimal
Bone		Fibrous Osteodystrophy	
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-5+13		
Liver	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA	TGLs = 3-7		
Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
Pancreas		Atrophy	Focal, Mild
Stomach	Glandular	Mineralization	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-6		
Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Parathyroid Gland	Preputial Gland	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla Cortex	Pheochromocytoma Benign Vacuolization Cytoplasmic	Minimal
Epididymis		Mesothelioma Malignant	
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Fibroma	
Note: FIBROMA	TGLs = 3-13		
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL	TGLs = 5-14		
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pancreas		Inflammation	Chronic, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Prostate		Inflammation	Chronic, Minimal
Stomach	Glandular	Mineralization	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 6-6		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Pancreas	Parathyroid Gland
Preputial Gland	Salivary Glands	Seminal Vesicle	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Brain		Compression	Mild
Heart		Inflammation	Chronic, Minimal
Kidney	Renal Tubule	Adenoma	
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-5+13			
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Ectasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-1			
Prostate		Inflammation	Chronic, Mild
Testes	Interstit Cell	Hyperplasia	Marked
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852608

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Liver		Hepatocellular Adenoma	
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pancreas		Atrophy	Diffuse, Marked
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		
Thyroid Gland	Follicle	Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 3

SEX: Male

DAY ON TEST: 629

DOSE: 5.0%

DISP: Dead

HISTO: A852609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Parathyroid Gland	Preputial Gland	Salivary Glands
Skin	Spleen	Thyroid Gland	Trachea
Urinary Bladder			

INSUFFICIENT TISSUE

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Minimal
Intestine Large	Cecum	Autolysis	Mild
	Colon	Autolysis	Mild
	Rectum	Autolysis	Mild
Intestine Small	Duodenum	Autolysis	Mild
	Ileum	Autolysis	Mild
	Jejunum	Autolysis	Mild
Kidney		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
Note: ANOM HEPAT LOB TGLs = 7-14			
Lung		Congestion	Mild
Lymph Node	Bronchial	Carcinoma	Metastatic (Stomach)
	Mesenteric	Carcinoma	Metastatic (Stomach)
Note: CARCINOMA TGLs = 3-13			
Pancreas		Carcinoma	Metastatic (Stomach)
Pituitary Gland	Pars Distalis	Hypertrophy	Minimal
Prostate		Carcinoma	Metastatic (Stomach)
Seminal Vesicle		Carcinoma	Metastatic (Stomach)
Stomach	Forestomach	Carcinoma	Metastatic (Stomach)
	Glandular	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 110

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 629

**DOSE:** 5.0%

**DISP:** Dead

**HISTO:** A852609

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Forestomach

Hyperplasia

Moderate

Note: CARCINOMA      TGLs = 4,5-4+15

Bilateral, Interstit Cell

Adenoma

Testes

Thymus

Carcinoma

Metastatic (Stomach)

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 121

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 618

**DOSE:** 2.5%

**DISP:** Moribund

**HISTO:** A852620

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland

Spleen

Thyroid Gland

---

**OBSERVATIONS**

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Multiple

Preputial Gland

Adenoma

Note: ADENOMA TGLs = 3-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4,5-6

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 122	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> A852621
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Spleen
---------------	--------

---

**OBSERVATIONS**

Kidney [ Nephropathy TGLS = 5-5 ]		Nephropathy	Moderate
Liver	Hepatocyte	Clear Cell Focus	Cystic, Mild
	Bile Duct	Degeneration	Mild
		Hyperplasia	
Preputial Gland Note: ADENOMA TGLs = 3-8		Adenoma	
Testes Note: ADENOMA TGLs = 4-6	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicle	Cyst	Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Liver Mammary Gland

OBSERVATIONS

Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
	Ileum	Pigmentation	Minimal
Kidney		Nephropathy	Mild
Mesentery		Osteosarcoma	Metastatic (Uncertain Primary Site)
Note: PRIMARY SITE UNCERTAIN.			
Note: OSTEOSARC TGLs = 3-14			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-1			
Preputial Gland		Adenoma	
Note: PRIMARY SITE UNCERTAIN.			
Note: ADENOMA TGLs = 1-13			
Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLs = 4-15 ]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 124

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 591

**DOSE:** 2.5%

**DISP:** Moribund

**HISTO:** A852623

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Thyroid Gland

**OBSERVATIONS**

Intestine Small

Ileum

Pigmentation

Mild

Kidney

Renal Tubule

Hypertrophy

Focal, Mild

Nephropathy

Moderate

Liver

Bile Duct

Hyperplasia

Minimal

Mesentery

Sarcoma

Note: SARCOMA

TGLs = 4-13

Spleen

Hematopoietic Cell Proliferation Granulocytic

Mild

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 479

DOSE: 2.5%

DISP: Dead

HISTO: A852624

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

Thyroid Gland

**OBSERVATIONS**

Brain

Oligodendroglioma Nos

Note: [ OLIGODENDR NOS ] TGLs = 7-15+15.1

Intestine Small

Ileum

Hyperplasia

Lymphoid, Minimal

Islets, Pancreatic

Carcinoma

Note: CARCINOMA TGLs = 4-13

Kidney

Nephropathy

Mild

Liver

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Minimal

[ Hepatodiaphragmatic Nodule TGLS = 5-14 ]

Lung

Congestion

Moderate

Note: CONGESTION TGLs = 6-3

Mammary Gland

Hyperplasia

Minimal

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-6+6.1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 681

DOSE: 2.5%

DISP: Moribund

HISTO: A852625

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Thyroid Gland

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Kidney

Nephropathy

Mild

Liver

Centrilobular

Necrosis

Minimal

[ Necrosis TGLS = 7-2 ]

Lung

Squamous Cell Carcinoma

Metastatic (Skin)

Note: SQUAM CEL CARC TGLs = 8,9-3

Skin

Squamous Cell Carcinoma

[ Squamous Cell Carcinoma TGLS = 1,2-13+14 ]

Spleen

Hematopoietic Cell Proliferation Granulocytic

Marked

[ Hematopoietic Cell Proliferation Granulocytic TGLS = 6-2 ]

Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 5-6+6.1 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 127

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 2.5%

**DISP:** Terminal Sacrifice

**HISTO:** A852626

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Spleen

Thyroid Gland

---

**OBSERVATIONS**

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Multiple

Bile Duct

Hyperplasia

Mild

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4-6

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 128	TRT#: 5 DOSE: 2.5%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: A852627
----------------	-----------------------	---------------------------------------	------------------------------------

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Spleen

---

**OBSERVATIONS**

Brain		Compression	Mild
[ Compression TGLS = 5-1 ]			
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Mild
Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Mild
Note: ECTASIA	TGLs = 3-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-1		
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 129	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> A852628
<b>OBSERVATIONS</b>			
Heart	Atrium Lft	Thrombosis	Mild
Kidney	Cortex	Cyst Nephropathy	Mild Moderate
[ Nephropathy TGLS = 5-5+5.1 ]			
Liver		Hepatodiaphragmatic Nodule Leukemia Mononuclear	
Note: ANOM HEPAT LOB	TGLs = 6-14		
Mammary Gland		Hyperplasia	Minimal
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 2-13		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma Atrophy	Moderate
Note: ADENOMA	TGLs = 4-6		
Note: ATROPHY	TGLs = 3-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal
<b>PRIMARY CAUSE OF DEATH</b>			
-			

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 130	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> A852629
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Spleen	Thyroid Gland
---------------	--------	---------------

---

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[ Hepatodiaphragmatic Nodule TGLS = 4-2 ]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 131	TRT#: 5 DOSE: 2.5%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO: A852630
----------------	-----------------------	---------------------------------------	------------------------------------

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland

---

**OBSERVATIONS**

Intestine Small	Jejunum	Hyperplasia	Lymphoid, Marked
Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Skin		Keratoacanthoma	
Note: KERATOACANTHOMA TGLs = 1-13			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 132	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> A852631
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Spleen
---------------	--------

---

**OBSERVATIONS**

Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
	Ileum	Pigmentation	Minimal
[ Hyperplasia TGLS = 3-4 ]			
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852632

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Spleen

Thyroid Gland

**OBSERVATIONS**

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Eosinophilic Focus

Hepatodiaphragmatic Nodule

Note: ANOM HEPAT LOB TGLs = 3-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 134

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 2.5%

**DISP:** Terminal Sacrifice

**HISTO:** A852633

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland

Spleen

---

**OBSERVATIONS**

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Multiple

Bile Duct

Hyperplasia

Minimal

Thyroid Gland

C Cell

Hyperplasia

Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852634

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Spleen

**OBSERVATIONS**

Kidney

Nephropathy

Moderate

Liver

Bile Duct

Hyperplasia

Minimal

Mesentery

Mesothelioma Malignant

Note: MESOTHELIO MAL TGLs = 4-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-6

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Spleen

OBSERVATIONS

Kidney		Nephropathy	Moderate
[ Nephropathy TGLS = 5-5 ]			
Liver	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mesenteric	Pigmentation	Minimal
Mammary Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Pigmentation	Mild
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 3-13		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 137	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 535 <b>HISTO:</b> A852636
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Liver	Spleen
-------	--------

---

**INSUFFICIENT TISSUE**

Mammary Gland

---

**OBSERVATIONS**

Kidney		Nephropathy	Mild
Skin	Subcut Tiss	Fibroma	
[ Fibroma TGLS = 4-13 ]			
Thyroid Gland	Follicle	Dilatation	Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 138

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 2.5%

**DISP:** Terminal Sacrifice

**HISTO:** A852637

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

**OBSERVATIONS**

Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Moderate
[ Nephropathy TGLS = 3-5 ]			
Liver		Leukemia Mononuclear	
Note: THIS IS VERY EARLY LEUKEMIA.			
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 140	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 620 <b>HISTO:</b> A852639
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Spleen

---

**INSUFFICIENT TISSUE**

Mammary Gland

---

**OBSERVATIONS**

Brain	Meninges	Granular Cell Tumor Malignant	
Kidney		Nephropathy	Moderate
Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
[ Hyperplasia TGLS = 7-13 ]			
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 8-14			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-6		Mesothelioma Malignant	
Thyroid Gland	C Cell	Adenoma	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 141

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 711

**DOSE:** 2.5%

**DISP:** Moribund

**HISTO:** A852640

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Thyroid Gland

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Moderate

Kidney

Nephropathy

Moderate

Liver

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 9-2 ]

Lymph Node

Mesenteric

Hemorrhage

Mild

Note: HEMORRHAGE

TGLs = 8-4

Mammary Gland

Duct

Ectasia

Mild

[ Ectasia TGLS = 3-7 ]

Prostate

Inflammation

Acute, Moderate

[ Inflammation TGLS = 6-6 ]

Spleen

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 7-2 ]

Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 4,5-6 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 142	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> A852641
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Spleen	Thyroid Gland
--------	---------------

---

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Hyperplasia	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852642

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

**OBSERVATIONS**

Adrenal Gland	Medulla	Pheochromocytoma Complex	
[ Pheochromocytoma Complex TGLS = 5-8 ]			
Intestine Small	Jejunum	Hyperplasia	Lymphoid, Mild
Kidney	Renal Tubule	Hyperplasia	Marked
		Nephropathy	Marked
[ Nephropathy TGLS = 6-5 ]			
Liver	Bile Duct	Hyperplasia	Minimal
Lung		Carcinoma	Metastatic (Thyroid Gland)
Note: THIS WAS SITED IN THE C-CELL.			
Note: CARCINOMA TGLs = 8-3			
Mammary Gland		Hyperplasia	Minimal
Mesentery		Necrosis	Focal, Mild
Note: NECROSIS TGLs = 4-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-6			
Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 7-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 144

**TRT#:** 5  
**DOSE:** 2.5%

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

**DAY ON TEST:** 732  
**HISTO:** A852643

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Spleen

**OBSERVATIONS**

Heart [ Thrombosis TGLS = 7-2 ]	Atrium Lft	Thrombosis	Marked
Kidney [ Nephropathy TGLS = 6-5 ]		Nephropathy	Moderate
Liver Mesentery Note: NECROSIS TGLs = 4-13	Bile Duct	Hyperplasia Necrosis	Minimal Focal, Moderate
Pancreas Note: ADENOMA TGLs = 5-4	Acinar Cell	Adenoma	
Testes Note: ADENOMA TGLs = 3-6	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicular Cel	Carcinoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Spleen

OBSERVATIONS

Adrenal Gland

Bilateral, Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 5-8

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Multiple

Hepatocyte

Degeneration

Cystic, Minimal

Subcut Tiss

Fibroma

Skin

Note: FIBROMA TGLs = 2-13

Testes

Interstitial Cell

Adenoma

Note: ADENOMA TGLs = 4-6

Note: ATROPHY TGLs = 3-6

Atrophy

Minimal

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 617

DOSE: 2.5%

DISP: Moribund

HISTO: A852645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

OBSERVATIONS

Adrenal Gland

Bilateral, Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 6-8+13

Intestine Small

Ileum

Pigmentation

Minimal

Kidney

Nephropathy

Mild

Liver

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 7-2 ]

Lymph Node

Mandibular

Hyperplasia

Minimal

[ Hyperplasia TGLS = 3-7 ]

Nose

Hyperkeratosis

Marked

Inflammation

Chronic Active, Moderate

Metaplasia

Squamous, Marked

[ Inflammation TGLS = 8-10+11+12 ]

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4-6

Thyroid Gland

Follicle

Cyst

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 147

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 2.5%

**DISP:** Terminal Sacrifice

**HISTO:** A852646

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Thyroid Gland

**OBSERVATIONS**

Heart	Atrium Lft	Thrombosis	Mild
Kidney		Nephropathy	Marked
Liver		Leukemia Mononuclear	
Lymph Node	Mesenteric	Ectasia	Marked
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2		
Note: ECTASIA	TGLs = 4-13		
Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 6-1		
Spleen		Leukemia Mononuclear	
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 148	TRT#: 5 DOSE: 2.5%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO: A852647
----------------	-----------------------	---------------------------------------	------------------------------------

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**INSUFFICIENT TISSUE**

Mammary Gland

---

**OBSERVATIONS**

Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
Note: ANOM HEPAT LOB TGLs = 3-14			
Spleen		Hemangioma	
Note: HEMANGIOMA TGLs = 2-13			
Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-6			
Thyroid Gland	C Cell	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 727

DOSE: 2.5%

DISP: Dead

HISTO: A852648

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Malignant

Note: PHEOCHROM MAL TGLs = 9-7

Kidney

Nephropathy

Mild

Liver

Leukemia Mononuclear

Lymph Node

Axillary

Leukemia Mononuclear

Mandibular

Leukemia Mononuclear

Mediastinal

Leukemia Mononuclear

Mesenteric

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Renal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3,4,7,8,10,11-4+7+13+14+15

Mammary Gland

Leukemia Mononuclear

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 5-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 150	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 666 <b>HISTO:</b> A852649
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Spleen	Thyroid Gland
---------------	--------	---------------

---

**OBSERVATIONS**

Islets, Pancreatic [ Carcinoma TGLS = 5-13 ]		Carcinoma	
Kidney [ Nephropathy TGLS = 4-5 ]		Nephropathy	Moderate
Liver [ Hepatodiaphragmatic Nodule TGLS = 6-14 ]	Bile Duct	Hepatodiaphragmatic Nodule Hyperplasia	Mild
Pancreas	Artery	Hypertrophy	Marked
Testes Note: ADENOMA TGLs = 3-6	Bilateral, Interstit Cell	Adenoma	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852650

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver

Spleen

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Moderate

Ileum

Pigmentation

Minimal

Kidney

Nephropathy

Mild

[ Nephropathy TGLs = 5-5 ]

Mammary Gland

Hemorrhage

Mild

Skin

Subcut Tiss

Fibroma

Note: FIBROMA TGLs = 1-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4-6

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852651

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

Thyroid Gland

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Moderate

Kidney

Nephropathy

Mild

Liver

Bile Duct

Hepatodiaphragmatic Nodule

Hyperplasia

Minimal

Note: [ HDN ] TGLs = 6-23

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-14

Preputial Gland

Adenoma

Note: ADENOMA TGLs = 4-8

Skin

Keratoacanthoma

Note: KERATOACANTHMA TGLs = 2-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 5-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 153	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> A852652
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Spleen
---------------	--------

---

**OBSERVATIONS**

Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Marked
[ Nephropathy TGLS = 3-5 ]			
Liver	Hepatocyte	Degeneration	Cystic, Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-6			
Thyroid Gland	C Cell	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852653

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Spleen

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Marked

Ileum

Inflammation

Moderate

Kidney

Nephropathy

Marked

Liver

Basophilic Focus

Multiple

Vacuolization Cytoplasmic

Minimal

Necrosis

Focal, Mild

Mesentery

Note: NECROSIS

TGLs = 4-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 3-6

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 155

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 591

**DOSE:** 2.5%

**DISP:** Moribund

**HISTO:** A852654

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

Thyroid Gland

**OBSERVATIONS**

Kidney

Nephropathy

Moderate

Liver

Hepatodiaphragmatic Nodule

Inflammation

Granulomatous, Mild

[ Inflammation TGLS = 3-13 ]

Mammary Gland

Duct

Ectasia

Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 4-1

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Liver

OBSERVATIONS

Heart	Atrium Lft	Thrombosis	Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
	Ileum	Pigmentation	Mild
Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Moderate
[ Nephropathy TGLS = 6-5 ]			
Lymph Node	Mandibular	Ectasia	Marked
	Mesenteric	Pigmentation	Mild
Note: ECTASIA TGLs = 3-14			
Mammary Gland	Duct	Ectasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 7-1			
Spleen		Fibrosis	Mild
Note: FIBROSIS TGLs = 5-15			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-6			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 157	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> A852656
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**INSUFFICIENT TISSUE**

Mammary Gland

---

**OBSERVATIONS**

Intestine Small	Jejunum	Hyperplasia	Lymphoid, Moderate
Kidney		Congestion	Mild
	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Moderate
[ Congestion TGLS = 5-5 ]			
Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
Skin		Cyst Epithelial Inclusion	
Note: CYST EPITH INC TGLs = 1-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 5

SEX: Male

DAY ON TEST: 674

DOSE: 2.5%

DISP: Dead

HISTO: A852657

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver

Spleen

Thyroid Gland

**OBSERVATIONS**

Intestine Small

Jejunum

Carcinoma

[ Carcinoma TGLS = 2-13 ]

Kidney

Nephropathy

Mild

Mammary Gland

Hyperplasia

Minimal

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 159	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> A852658
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Spleen
---------------	--------

---

**OBSERVATIONS**

Kidney		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[ Hyperplasia TGLS = 3-13 ]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-6			
Thyroid Gland	Follicle	Dilatation	Moderate

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

---

<b>ANIMAL ID:</b> 160	<b>TRT#:</b> 5	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 735
	<b>DOSE:</b> 2.5%	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> A852659

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Spleen

---

**INSUFFICIENT TISSUE**

Mammary Gland

---

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Lymph Node	Mesenteric	Pigmentation	Minimal
Preputial Gland		Adenoma	
Note: ADENOMA	TGLs = 1-13		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-6		
Thyroid Gland	Follicle	Dilatation	Mild
	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 161	<b>TRT#:</b> 5 <b>DOSE:</b> 2.5%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> A852660
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Spleen
---------------	--------

---

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Skin		Acanthosis	Marked
		Hyperkeratosis	Moderate
Note: ACANTHOSIS	TGLs = 1-13		
Thyroid Gland	C Cell	Hyperplasia	Moderate

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852661

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

**OBSERVATIONS**

Adrenal Gland

Medulla

Pheochromocytoma Benign

Medulla

Thrombosis

Marked

Note: THROMBUS TGLs = 3-8

Kidney

Leukemia Mononuclear

Nephropathy

Mild

Note: LEUKEMIA MONUC TGLs = 2-5+13

Note: UNUSUAL PATTERN OF GROWTH AND TUBULAR RESPONSE.

Liver

Leukemia Mononuclear

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 5-6

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 163	TRT#: 5 DOSE: 2.5%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: A852662
----------------	-----------------------	---------------------------------------	------------------------------------

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

NORMAL

Liver	Mammary Gland
-------	---------------

---

OBSERVATIONS

Kidney Note: CARCINOMA TGLs = 7-15	Renal Tubule	Carcinoma	
Skin Note: INFLAMMATION TGLs = 3-13 Note: FIBROMA TGLs = 4-14	Subcut Tiss	Fibroma Inflammation	Chronic, Moderate
Spleen [ Hematopoietic Cell Proliferation Granulocytic TGLS = 6-2 ]		Hematopoietic Cell Proliferation Granulocytic	Moderate
Testes [ Adenoma TGLS = 5-6 ]	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 164	TRT#: 5 DOSE: 2.5%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: A852663
----------------	-----------------------	---------------------------------------	------------------------------------

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

NORMAL

Spleen	Thyroid Gland
--------	---------------

---

OBSERVATIONS

Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
	Hepatocyte	Degeneration	Cystic, Mild
		Hyperplasia	Focal, Mild
Mammary Gland		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-13			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-6			

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 5

SEX: Male

DAY ON TEST: 693

DOSE: 2.5%

DISP: Moribund

HISTO: A852664

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Spleen

Thyroid Gland

**OBSERVATIONS**

Heart

Atrium Lft

Thrombosis

Mild

[ Thrombosis TGLS = 9-2.1 ]

Kidney

Nephropathy

Mild

Liver

Hepatodiaphragmatic Nodule

Vacuolization Cytoplasmic

Minimal

[ Vacuolization Cytoplasmic TGLS = 7-14 ]

Lymph Node

Mediastinal

Hemorrhage

Mild

Inguinal

Hyperplasia

Reticulum Cell, Mild

Note: HEMORRHAGE TGLs = 8-16

[ Hemorrhage TGLS = 4-15 ]

Preputial Gland

Adenoma

Note: ADENOMA

TGLs = 3-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 5-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 166

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 673

**DOSE:** 2.5%

**DISP:** Moribund

**HISTO:** A852665

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

**OBSERVATIONS**

Intestine Small

[ Intussusception TGLS = 6-13 ]

Jejunum

Intussusception

Kidney

[ Nephropathy TGLS = 5-5 ]

Nephropathy

Marked

Liver

Hepatocyte

Degeneration

Cystic, Minimal

Lymph Node

Mesenteric

Pigmentation

Minimal

Mammary Gland

Duct

Ectasia

Moderate

Note: ECTASIA TGLs = 3-7

Parathyroid Gland

Note: HYPERPLASIA TGLs = 7-3

Hyperplasia

Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 8-1.1

Pars Distalis

Cyst

Mild

Prostate

Note: INFLAMMATION TGLs = 4-6

Inflammation

Acute, Moderate

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 167

**TRT#:** 5  
**DOSE:** 2.5%

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

**DAY ON TEST:** 735  
**HISTO:** A852666

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Thyroid Gland

---

**INSUFFICIENT TISSUE**

Mammary Gland

---

**OBSERVATIONS**

Kidney	Congestion	Mild
	Nephropathy	Mild
[ Congestion TGLS = 5-5 ]		
Liver	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-2	
Spleen	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-2	
Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 3-6	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 168

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 2.5%

**DISP:** Terminal Sacrifice

**HISTO:** A852667

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Spleen

Thyroid Gland

**OBSERVATIONS**

Kidney

Nephropathy

Moderate

[ Nephropathy TGLS = 3-5 ]

Liver

Hepatocyte

Degeneration

Cystic, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 4-1

Spleen

Note: CLOSE TO MCL

Testes

Bilateral, Interstit Cell

Adenoma

[ Adenoma TGLS = 2-6 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 5

SEX: Male

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852669

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

**OBSERVATIONS**

Kidney	Cortex	Cyst	Mild
		Nephropathy	Moderate
[ Nephropathy TGLS = 6-5+14 ]			
Liver		Leukemia Mononuclear	
Skin		Basal Cell Adenoma	
Note: BASAL CEL ADEN	TGLs = 3-13		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-6+6.1		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852680

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

Thyroid Gland

**OBSERVATIONS**

Kidney

Nephropathy

Moderate

Liver

Hepatodiaphragmatic Nodule

Bile Duct

Hyperplasia

Minimal

Hyperplasia

Focal, Mild

Leukocytosis

Mild

Note: ANOM HEPAT LOB TGLs = 5-2

Mammary Gland

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 3-7

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 6-1

Skin

Acanthosis

Moderate

Note: ACANTHOSIS TGLs = 1-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 182

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 681

**DOSE:** 1.0%

**DISP:** Moribund

**HISTO:** A852681

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Thyroid Gland

**OBSERVATIONS**

Kidney

Nephropathy

Moderate

[ Nephropathy TGLS = 6-5 ]

Liver

Leukemia Mononuclear

Mesentery

Necrosis

Focal, Mild

Note: NECROSIS TGLs = 5-13

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 592

DOSE: 1.0%

DISP: Moribund Sacrifice

HISTO: A852682

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM BGN TGLs = 6-8	Bilateral, Medulla	Pheochromocytoma Benign	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney	Renal Tubule	Hyperplasia Nephropathy	Minimal Moderate
Liver [ Leukemia Mononuclear TGLS = 7-2 ]		Leukemia Mononuclear	
Mammary Gland		Hyperplasia	Minimal
Mesentery Note: NECROSIS TGLs = 4-13	Fat	Necrosis	Mild
Spleen Note: LEUKEMIA MONUC TGLs = 5-2		Leukemia Mononuclear	
Testes Note: ADENOMA TGLs = 3-6	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland Note: CARCINOMA TGLs = 8-3	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 184

**TRT#:** 7  
**DOSE:** 1.0%

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

**DAY ON TEST:** 513  
**HISTO:** A852683

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Liver

Mammary Gland

Spleen

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Kidney

Nephropathy

Mild

Skin

Subcut Tiss

Myxoma

[ Myxoma TGLS = 1,2-13 ]

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 4-6

Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 185

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852684

**OBSERVATIONS**

Liver

Leukocytosis

Mild

Mammary Gland

Galactocele

Moderate

Inflammation

Chronic, Moderate

Note: GALACTOCELE TGLs = 2-13

Spleen

Fibrosis

Mild

Note: FIBROSIS TGLs = 4-2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-6

Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 186

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 686

**DOSE:** 1.0%

**DISP:** Moribund

**HISTO:** A852685

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

**OBSERVATIONS**

Kidney	Renal Tubule	Hyperplasia Nephropathy	Moderate Marked
[ Nephropathy TGLS = 5-5+13 ]			
Liver		Vacuolization Cytoplasmic	Moderate
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA TGLs = 3-7			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-1			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-6			
Thyroid Gland	Follicular Cel	Adenoma	
Note: ADENOMA TGLs = 6,7-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 187	<b>TRT#:</b> 7 <b>DOSE:</b> 1.0%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> A852686
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Spleen	Thyroid Gland
---------------	--------	---------------

---

**OBSERVATIONS**

Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Mild
Preputial Gland		Adenoma	

Note: ADENOMA      TGLs = 3-13

---

**PRIMARY CAUSE OF DEATH**      -

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Spleen

Thyroid Gland

OBSERVATIONS

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Multiple

Bile Duct

Hyperplasia

Minimal

Vacuolization Cytoplasmic

Minimal

Skin

Tail

Acanthosis

Moderate

Tail

Hyperkeratosis

Moderate

Note: HYPERKERATOSIS TGLs = 1-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 189

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852688

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Thyroid Gland

**OBSERVATIONS**

Kidney

Nephropathy

Mild

Liver

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6,7-2

Mammary Gland

Duct

Ectasia

Minimal

Mesentery

Inflammation

Chronic, Moderate

Note: AREA HAD NECROTIC TISSUE SURROUNDED BY FIBROUS TISSUE

Note: INFLAMMATION TGLs = 4-13

Note: WITH A FEW VIABLE LIVER CELLS.

Pituitary Gland

Pars Distalis

Hemorrhage

Marked

Pars Distalis

Hyperplasia

Mild

Note: HEMORRHAGE TGLs = 8-1

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 190	<b>TRT#:</b> 7 <b>DOSE:</b> 1.0%	<b>SEX:</b> Male <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 604 <b>HISTO:</b> A852689
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Thyroid Gland
---------------	---------------

---

**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Liver		Leukocytosis	Mild
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 1-13		
Spleen		Hematopoietic Cell Proliferation Erythrocytic	Mild
Note: HEMA CL PR ERY	TGLs = 6-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4,5-6		

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 191	TRT#: 7 DOSE: 1.0%	SEX: Male DISP: Moribund	DAY ON TEST: 686 HISTO: A852690
----------------	-----------------------	-----------------------------	------------------------------------

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

NORMAL

Spleen	Thyroid Gland
--------	---------------

---

OBSERVATIONS

Brain		Astrocytoma Nos Compression	Moderate
[ Compression TGLS = 7-1 ]			
Kidney		Nephropathy	Mild
Liver	Bile Duct	Hepatodiaphragmatic Nodule Hyperplasia Vacuolization Cytoplasmic	Minimal Mild
[ Hyperplasia TGLS = 5-14 ]			
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 3-7			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-1			
Prostate		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 4-6+13			

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852691

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Spleen

Thyroid Gland

**OBSERVATIONS**

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 7-5

Liver

Bile Duct

Hyperplasia

Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 8-1

Skin

Tail

Acanthosis

Moderate

Adenoma

Tail

Hyperkeratosis

Moderate

Squamous Cell Papilloma

Note: PAPILLOMA SQUA TGLs = 5-15

Note: HYPERKERATOSIS TGLs = 3-13

Note: ADENOMA TGLs = 4-14

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 6-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 193

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852692

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Kidney

Renal Tubule

Hyperplasia

Mild

Nephropathy

Moderate

Liver

Bile Duct

Hyperplasia

Minimal

Skin

Subcut Tiss

Inflammation

Chronic, Minimal

Note: INFLAMMATION TGLs = 3-13

Spleen

Fibrosis

Mild

Note: FIBROSIS TGLs = 5-14

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4-6

Thyroid Gland

Follicular Cel

Carcinoma

Marked

C Cell

Hyperplasia

Note: CARCINOMA TGLs = 6-3

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

---

<b>ANIMAL ID:</b> 194	<b>TRT#:</b> 7 <b>DOSE:</b> 1.0%	<b>SEX:</b> Male <b>DISP:</b> Dead	<b>DAY ON TEST:</b> 728 <b>HISTO:</b> A852693
<b>OBSERVATIONS</b>			
Heart [ Thrombosis TGLS = 10-2 ]	Atrium Lft	Thrombosis	Moderate
Kidney [ Nephropathy TGLS = 8-5 ]		Nephropathy	Moderate
Liver [ Hepatodiaphragmatic Nodule TGLS = 9-13 ]		Hepatodiaphragmatic Nodule Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia	Minimal
Pituitary Gland Note: ADENOMA TGLs = 11-1	Pars Distalis	Adenoma	
Preputial Gland Note: INFLAMMATION TGLs = 3-8		Inflammation	Chronic, Mild
Spleen Note: LEUKEMIA MONUC TGLs = 7-2		Leukemia Mononuclear	
Testes Note: ADENOMA TGLs = 5,6-6	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	Follicle	Cyst	Mild
<b>PRIMARY CAUSE OF DEATH</b> -			

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 711

DOSE: 1.0%

DISP: Dead

HISTO: A852694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Epididymis
Esophagus	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Lymph Node - Mandibular	Mammary Gland	Parathyroid Gland	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Spleen
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

AUTO PRECLUDES DIAG.

Islets, Pancreatic	Pancreas
--------------------	----------

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Fibrosarcoma	Metastatic (Skin)
		Inflammation	Chronic, Mild
Intestine Large	Cecum	Autolysis	Moderate
Intestine Small	Ileum	Autolysis	Moderate
	Jejunum	Autolysis	Moderate
Kidney		Autolysis	Mild
		Nephropathy	Mild
Liver		Autolysis	Mild
Lung		Fibrosarcoma	Metastatic (Skin)
Nose		Basosquamous Tumor Benign	
	Nasolacrim Dct	Inflammation	Acute, Mild
Note: BASOSQU TM BGN TGLs = 3-13			
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 6,7-14			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-5			
Thymus		Fibrosarcoma	Metastatic (Skin)

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 195

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 711

**DOSE:** 1.0%

**DISP:** Dead

**HISTO:** A852694

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

---

**ANIMAL ID:** 196

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 647

**DOSE:** 1.0%

**DISP:** Moribund

**HISTO:** A852695

---

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 5-2 ]			
Mammary Gland	Duct	Ectasia	Minimal
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-6			
Thyroid Gland	C Cell	Hyperplasia	Moderate

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852696

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Spleen

Thyroid Gland

**OBSERVATIONS**

Adrenal Gland

Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 2-13

Kidney

Nephropathy

Moderate

Liver

Hepatocyte

Degeneration

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852697

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

**INSUFFICIENT TISSUE**

Mammary Gland

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 592

DOSE: 1.0%

DISP: Moribund

HISTO: A852698

**ORGAN AND ACCOUNTABLE SITE STATUS**

**INSUFFICIENT TISSUE**

Mammary Gland

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Kidney

Nephropathy

Mild

Liver

Hepatocyte

Degeneration

Cystic, Mild

Leukemia Mononuclear

[ Degeneration TGLS = 5-2 ]

Lung

Alveolar/Bronchiolar Adenoma

Note: ALV BRON ADEN TGLs = 7-3

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4-6

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 723

DOSE: 1.0%

DISP: Moribund

HISTO: A852699

OBSERVATIONS

Kidney [ Nephropathy TGLS = 8-5 ]		Nephropathy	Moderate
Liver [ Leukemia Mononuclear TGLS = 9-2 ]		Leukemia Mononuclear	
Lymph Node Note: LEUKEMIA MONUC TGLs = 5-13	Pancreatic	Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia Leukemia Mononuclear	Mild
Preputial Gland Note: CYST TGLs = 3-8		Cyst Inflammation	Moderate Chronic Active, Mild
Spleen Note: LEUKEMIA MONUC TGLs = 6-2 Note: INFARCT TGLs = 7-14		Infarct Leukemia Mononuclear	Moderate
Testes Note: ADENOMA TGLs = 4-6	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 201

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852700

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Thyroid Gland

---

**OBSERVATIONS**

Kidney	Renal Tubule	Hyperplasia Nephropathy	Mild Marked
[ Nephropathy TGLS = 4-5 ]			
Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 6-2 ]			
Mammary Gland		Cyst	Marked
[ Cyst TGLS = 2-13 ]			
Spleen		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-2 ]			
Testes	Bilateral, Interstit Cell	Adenoma	
[ Adenoma TGLS = 3-6 ]			

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

---

<b>ANIMAL ID:</b> 202	<b>TRT#:</b> 7 <b>DOSE:</b> 1.0%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 736 <b>HISTO:</b> A852701
<b>OBSERVATIONS</b>			
Kidney [ Nephropathy TGLS = 9-5 ]	Renal Tubule	Hyperplasia Nephropathy	Mild Marked
Liver Note: [ CLEAR CL FOCUS ] TGLs = 10-23+23.1		Clear Cell Focus Leukocytosis	Mild
Mammary Gland Mesentery Note: HEMORRHAGE TGLs = 7-14		Hyperplasia Hemorrhage Inflammation	Minimal Moderate Chronic, Moderate
Skin Note: PAPILLOMA SQUA TGLs = 3-13		Squamous Cell Papilloma	
Spleen Note: [ CONGESTION ] TGLs = 8-2		Congestion	Mild
Testes Note: ADENOMA TGLs = 4,5,6-6	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell Follicular Cel	Adenoma Hyperplasia	Cystic, Minimal
<b>PRIMARY CAUSE OF DEATH</b> -			

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 203

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 729

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852702

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

**OBSERVATIONS**

Kidney

Nephropathy

Marked

[ Nephropathy TGLS = 5-5 ]

Liver

Hypertrophy

Focal, Mild

Mammary Gland

Duct

Ectasia

Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 6-1.1

Skin

Tail

Acanthosis

Mild

Tail

Hyperkeratosis

Moderate

Tail

Inflammation

Acute, Mild

Note: HYPERKERATOSIS TGLs = 3-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 4-6

Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 7

SEX: Male

DAY ON TEST: 699

DOSE: 1.0%

DISP: Moribund

HISTO: A852703

OBSERVATIONS

Kidney		Nephropathy	Mild
Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLS = 5-2 ]			
Mammary Gland	Duct	Ectasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 6-1			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 7

SEX: Male

DAY ON TEST: 592

DOSE: 1.0%

DISP: Moribund

HISTO: A852704

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Epididymis Mammary Gland

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver		Leukocytosis	Mild
Lymph Node	Pancreatic	Hyperplasia	Reticulum Cell, Mild
Note: HYPERPLASIA	TGLs = 6-14		
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 3-13		
Spleen		Hematopoietic Cell Proliferation Granulocytic	Moderate
Note: HEMA CL PR GRN	TGLs = 5-2		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-6		
Thyroid Gland	Follicular Cel	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 206

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852705

---

**OBSERVATIONS**

Kidney  
Liver  
Mammary Gland  
    Note: FIBROADENOMA   TGLs = 2-13  
Spleen  
    Note: LEUKEMIA MONUC   TGLs = 5-2  
Testes  
    Note: ADENOMA        TGLs = 3,4-6  
Thyroid Gland

Bilateral, Interstit Cell  
  
Follicle  
C Cell

Nephropathy  
Leukemia Mononuclear  
Fibroadenoma  
  
Leukemia Mononuclear  
  
Adenoma  
  
Dilatation  
Hyperplasia

Mild  
  
  
  
  
  
  
Moderate  
Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 207

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 720

**DOSE:** 1.0%

**DISP:** Dead

**HISTO:** A852706

**OBSERVATIONS**

Kidney

Congestion  
Nephropathy

Mild  
Mild

[ Congestion TGLS = 5-5 ]

Liver

Leukemia Mononuclear  
Ectasia  
Leukemia Mononuclear

Mild

Mammary Gland

Duct

Spleen

Note: LEUKEMIA MONUC TGLs = 4-2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3,6-6

Thyroid Gland

C Cell

Adenoma  
Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 208

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 610

**DOSE:** 1.0%

**DISP:** Dead

**HISTO:** A852707

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland

Thyroid Gland

---

**OBSERVATIONS**

Adrenal Gland

Cortex

Carcinoma

[ Carcinoma TGLS = 4-13 ]

Kidney

Nephropathy

Mild

Liver

Autolysis

Moderate

Spleen

Autolysis

Moderate

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-6

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 209

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Mammary Gland

Spleen

OBSERVATIONS

Kidney

Nephropathy

Moderate

[ Nephropathy TGLS = 5-5 ]

Liver

Bile Duct

Hyperplasia

Minimal

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 7-1

Preputial Gland

Adenoma

Note: ADENOMA

TGLs = 3-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 4-6

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA

TGLs = 6-3

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 210

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 513

**DOSE:** 1.0%

**DISP:** Moribund

**HISTO:** A852709

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

**OBSERVATIONS**

Kidney		Nephropathy	Mild
Liver		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 6-2 ]		
Lung		Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 8-3+3.1 ]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	[ Leukemia Mononuclear TGLS = 7,9-3+3.1+4 ]		
Spleen		Leukemia Mononuclear	
	Note: LEUKEMIA MONUC TGLs = 4-2		
Testes	Bilateral, Interstit Cell	Adenoma	
	Note: ADENOMA TGLs = 3-6+6.1		
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 211	<b>TRT#:</b> 7 <b>DOSE:</b> 1.0%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 736 <b>HISTO:</b> A852710
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Spleen	Thyroid Gland
---------------	--------	---------------

---

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Hypertrophy	Focal, Mild
[ Hypertrophy TGLS = 4-13 ]			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-6		

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852711

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Spleen

**OBSERVATIONS**

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Multiple

Bile Duct

Hyperplasia

Mild

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 1-6

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 213	<b>TRT#:</b> 7 <b>DOSE:</b> 1.0%	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 736 <b>HISTO:</b> A852712
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland	Spleen
---------------	--------

---

**OBSERVATIONS**

Kidney [ Nephropathy TGLS = 2-5 ]		Nephropathy	Moderate
Liver [ Hepatodiaphragmatic Nodule TGLS = 3-13 ]		Hepatodiaphragmatic Nodule	
Pituitary Gland Note: ECTASIA TGLs = 4-1	Pars Distalis	Ectasia	Marked
Testes Note: ADENOMA TGLs = 1-6	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852713

OBSERVATIONS

Kidney [ Nephropathy TGLS = 3-5 ]		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Mammary Gland		Duct Ectasia	Mild
Pituitary Gland		Pars Distalis Adenoma	
Note: ADENOMA TGLs = 6-1			
Skin		Tail Acanthosis	Moderate
Note: ACANTHOSIS TGLs = 5-13		Tail Hyperkeratosis	Mild
Spleen		Leukemia Mononuclear	
Testes		Bilateral, Interstit Cell Adenoma	
Note: ADENOMA TGLs = 1,2-6+6.1			
Thyroid Gland		Follicular Cel Carcinoma	
Note: CARCINOMA TGLs = 4-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:19  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 215	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 1.0%	DISP: Terminal Sacrifice	HISTO: A852714

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Mammary Gland

---

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver	Bile Duct	Hyperplasia	Minimal
Skin	Subcut Tiss	Cyst	Moderate
	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Fibrosis	Moderate
Note: FIBROSARC	TGLs = 2-13		
Note: CYST	TGLs = 3-14		
Spleen		Fibrosis	Moderate
Note: FIBROSIS	TGLs = 5-15		
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-6		
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 216

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852715

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Skin

**OBSERVATIONS**

Ear

Pinna

Squamous Cell Papilloma

Note: PAPILLOMA SQUA TGLs = 2-13

Kidney

Nephropathy

Moderate

Liver

Leukemia Mononuclear

Spleen

Leukemia Mononuclear

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 3-6

Thyroid Gland

Follicular Cel

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 217

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852716

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

**OBSERVATIONS**

Kidney

Leukemia Mononuclear

Nephropathy

Moderate

[ Nephropathy TGLS = 4-5 ]

Liver

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-2

Lymph Node

Mandibular

Leukemia Mononuclear

Renal

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2,8-7+13

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 9-1

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-2

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-6

Thyroid Gland

C Cell

Carcinoma

Note: CARCINOMA TGLs = 7-3

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

---

**ANIMAL ID:** 218

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852717

---

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 5-2 ]			
Mammary Gland		Hyperplasia	Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2,3-6			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 219

TRT#: 7

SEX: Male

DAY ON TEST: 644

DOSE: 1.0%

DISP: Moribund

HISTO: A852718

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Thyroid Gland

**OBSERVATIONS**

Kidney		Nephropathy	Mild
[ Nephropathy TGLS = 5-5 ]			
Liver		Leukocytosis	Mild
		Vacuolization Cytoplasmic	Mild
[ Vacuolization Cytoplasmic TGLS = 7-2 ]			
Lung		Osteosarcoma	Metastatic (Uncertain Primary Site)
Note: OSTEOSARC TGLs = 8-3			
Mammary Gland	Duct	Ectasia	Minimal
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 4-6			
Tissue NOS		Sarcoma	
Note: THIS IS OSTEOGENIC SARCOMA.			
Note: SARCOMA TGLs = 3-13			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 220

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852719

**OBSERVATIONS**

Kidney [ Nephropathy TGLS = 6-5 ]		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Mammary Gland Note: HYPERPLASIA TGLs = 4-7		Hyperplasia	Mild
Pituitary Gland [ Adenoma TGLS = 8-1 ]	Pars Distalis	Adenoma	
Preputial Gland Note: ADENOMA TGLs = 1-13		Adenoma	
Seminal Vesicle Note: DILATATION TGLs = 5-		Dilatation	Mild
Spleen [ Leukemia Mononuclear TGLS = 7-2 ]		Leukemia Mononuclear	
Testes Note: ADENOMA TGLs = 2,3-6	Bilateral, Interstit Cell	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852720

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

**OBSERVATIONS**

Bone Marrow

Sarcoma

Note: THIS IS OSTEOGENIC SARCOMA.

[ Sarcoma TGLS = 7-9 ]

Kidney

Nephropathy

Moderate

Liver

Bile Duct

Hyperplasia

Minimal

Lung

Osteosarcoma

Metastatic (Bone Marrow)

Note: OSTEOSARC TGLs = 6-3+14

Spleen

Osteosarcoma

Metastatic (Bone Marrow)

Note: OSTEOSARC TGLs = 5-13

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2,3-6

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 223

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 301

**DOSE:** 1.0%

**DISP:** Dead

**HISTO:** A83030486

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**INSUFFICIENT TISSUE**

Mammary Gland

---

**OBSERVATIONS**

Brain Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 6-1 ]

Liver Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 4-5 ]

Lung Hemorrhage Mild

[ Hemorrhage TGLS = 5-4 ]

Spleen Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 3-2.2 ]

Thyroid Gland Follicle Cyst Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 224

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852723

**OBSERVATIONS**

Adrenal Gland

Bilateral, Medulla

Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 5-14

Heart

Atrium Lft

Thrombosis

Moderate

[ Thrombosis TGLs = 6-15 ]

Kidney

Nephropathy

Moderate

[ Nephropathy TGLs = 4-5 ]

Liver

Leukemia Mononuclear

Mammary Gland

Hyperplasia

Minimal

Preputial Gland

Adenoma

Note: ADENOMA TGLs = 2-13

Spleen

Leukemia Mononuclear

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-6

Thyroid Gland

C Cell

Adenoma

Follicular Cel

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 7

SEX: Male

DAY ON TEST: 557

DOSE: 1.0%

DISP: Moribund

HISTO: A852724

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver	Hepatocyte	Degeneration Hepatocellular Adenoma Leukocytosis	Cystic, Mild  Mild
Note: HEPATOCLR ADEN TGLs = 5-13			
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 7-15			
Mesentery		Fibrosarcoma	
Note: FIBROSARC TGLs = 6-14			
Spleen		Hematopoietic Cell Proliferation Granulocytic	Marked
Note: HEMA CL PR GRN TGLs = 4-2			
Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-6			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 7

SEX: Male

DAY ON TEST: 675

DOSE: 1.0%

DISP: Dead

HISTO: A852725

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Spleen

**OBSERVATIONS**

Heart

Note: HAS A THROMBUS, BUT IS A POSTMORTEM CLOT.

Kidney

Nephropathy

Moderate

Liver

Bile Duct

Hyperplasia

Mild

Mammary Gland

Hyperplasia

Minimal

Preputial Gland

Adenoma

Note: ADENOMA

TGLs = 3-8

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA

TGLs = 4-6

Thyroid Gland

C Cell

Adenoma

Follicular Cel

Adenoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 227

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852726

**OBSERVATIONS**

Adrenal Gland

Medulla

Ganglioneuroma

Note: GANGLIONEUROMA TGLs = 3-14

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Kidney

Nephropathy

Mild

Liver

Infarct

Minimal

Leukemia Mononuclear

Note: INFARCT TGLs = 5-15

[ Infarct TGLS = 4-2 ]

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-13

Spleen

Leukemia Mononuclear

Thyroid Gland

Follicular Cel

Hyperplasia

Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 7

SEX: Male

DAY ON TEST: 477

DOSE: 1.0%

DISP: Moribund

HISTO: A852727

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Thyroid Gland

**OBSERVATIONS**

Kidney

Nephropathy

Mild

Liver

Hepatodiaphragmatic Nodule

Leukemia Mononuclear

[ Hepatodiaphragmatic Nodule TGLS = 8-15 ]

[ Leukemia Mononuclear TGLS = 7-2+15 ]

Lymph Node

Mediastinal

Leukemia Mononuclear

Mesenteric

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 6,9,10-3+4 ]

Prostate

Inflammation

Acute, Moderate

Note: INFLAMMATION TGLs = 3-6

Seminal Vesicle

Inflammation

Acute, Moderate

Note: INFLAMMATION TGLs = 4-14

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-2

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 7

SEX: Male

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852728

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Mammary Gland

Spleen

Thyroid Gland

**OBSERVATIONS**

Adrenal Gland

Medulla

Pheochromocytoma Benign

[ Pheochromocytoma Benign TGLS = 5-13 ]

Kidney

Nephropathy

Moderate

[ Nephropathy TGLS = 6-5 ]

Liver

Bile Duct

Hyperplasia

Minimal

Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3,4-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:19  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 230

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A823729

**ORGAN AND ACCOUNTABLE SITE STATUS**

**INSUFFICIENT TISSUE**

Mammary Gland

**OBSERVATIONS**

Kidney	Renal Tubule	Hyperplasia Nephropathy	Mild Marked
[ Nephropathy TGLs = 6-5 ]			
Liver		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 7-1		
Preputial Gland		Inflammation	Acute, Moderate
Note: INFLAMMATION	TGLs = 3-8		
Skin	Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 2-13		
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
Note: ADENOMA	TGLs = 5-6+6.1		
Note: HYPERPLASIA	TGLs = 4-6+6.1		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 1	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> A852740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Clitoral Gland		Hyperplasia	Moderate
Eye	Lens	Cataract	Moderate
Note: CATARACT	TGLs = 1-15		
Heart		Inflammation	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
Note: ECTASIA	TGLs = 2-7		
Note: FIBROADENOMA	TGLs = 3-13		
Pituitary Gland	Pars Distalis	Adenoma	
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Adenoma	
Uterus	Cervix	Inflammation	Acute, Mild
Note: INFLAMMATION	TGLs = 5-14		
Vagina		Inflammation	Acute, Mild

PRIMARY CAUSE OF DEATH	-
------------------------	---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 2	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 507
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Kidney		Nephropathy	Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-2		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-3		
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-13		
Pancreas		Atrophy	Focal, Minimal
	Duct	Ectasia	Mild
Pituitary Gland	Pars Distalis	Cyst	Moderate
Note: CYST	TGLs = 6-1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-2		

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 618
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Medulla	Leukemia Mononuclear	
[ Leukemia Mononuclear TGLs = 5-8 ]			
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Minimal
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-2			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
Lymph Node	Axillary	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2,3,6,9-3+7+13+14			
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA TGLs = 1-7			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Moderate
Note: ADENOMA TGLs = 10-1			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Thymus		Cyst	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 3

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 618

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852742

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Leukemia Mononuclear

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 2

SEX: Female

DAY ON TEST: 676

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Liver		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 3-15			
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mammary Gland	Duct	Ectasia	Moderate
Mesentery		Sarcoma	
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Hematopoietic Cell Proliferation Granulocytic	Marked
Note: HEMA CL PR GRN TGLs = 1-2			
Stomach	Forestomach	Hyperplasia	Marked
	Forestomach	Inflammation	Chronic, Moderate
Uterus		Inflammation	Acute, Minimal
Note: INFLAMMATION TGLs = 2-6			
Vagina		Schwannoma Malignant	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 5	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> A852744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Clitoral Gland			
----------------	--	--	--

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla Cortex	Pheochromocytoma Benign Vacuolization Cytoplasmic	Mild
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus Leukemia Mononuclear	Multiple
Lymph Node	Mesenteric	Congestion	Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1,2-13+14			
Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Minimal Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-2			
Thyroid Gland	C Cell C Cell	Adenoma Carcinoma	
Note: CARCINOMA TGLs = 5-3			
Uterus	Endometrium	Necrosis Polyp Stromal	Marked
Note: POLYP STROMAL TGLs = 3-15			

PRIMARY CAUSE OF DEATH	-
------------------------	---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

---

<b>ANIMAL ID:</b> 6	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 675
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852745

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Bone Marrow	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

---

**OBSERVATIONS**

Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Hypertrophy	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Brain		Compression	Mild
Clitoral Gland		Inflammation	Acute, Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Hyperplasia	Mild
Mammary Gland	Duct	Ectasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-1		
Stomach	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic, Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 7	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> A852746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Brain	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
Bone		Osteopetrosis	Mild
Note: OSTEOPETROSIS TGLs = 2-9+12			
Bone Marrow		Hypoplasia	Mild
Note: MARROW NORMAL,BUT BONE HAS OSTEOPETROSIS THUS LESS MARROW.			
Note: HYPOPLASIA TGLs = 5-9			
Clitoral Gland	Duct	Ectasia	Moderate
		Inflammation	Acute, Minimal
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Congestion	Mild
		Inflammation	Granulomatous, Minimal
Note: CONGESTION TGLs = 4-14			
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA TGLs = 1-7+13			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Ectasia	Mild
Note: ADENOMA TGLs = 3-1			
Thymus		Cyst	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 578
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Minimal
Bone Marrow		Hyperplasia	Mild
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 2-13		
Heart		Inflammation	Chronic, Mild
Kidney		Mineralization	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Hematopoietic Cell Proliferation	Mild
Mammary Gland	Duct	Ectasia	Minimal
Note: ECTASIA	TGLs = 1-7		
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 4-1		
Spleen		Hematopoietic Cell Proliferation Granulocytic	Marked
Note: HEMA CL PR GRN	TGLs = 3-2		
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 9

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 249

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A83029855

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Liver	Lung
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

**OBSERVATIONS**

Brain		Oligodendroglioma Nos	
Note: [ OLIGODENDR NOS ] TGLs = 1,2-1			
Intestine Large	Rectum	Parasite Metazoan	
Uterus		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 2

SEX: Female

DAY ON TEST: 648

DOSE: UNTREATD CONTROL

DISP: Dead

HISTO: A852749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla  
Intestine Large - Colon  
Islets, Pancreatic  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Intestine Large - Rectum  
Lung  
Skin  
Thymus  
Uterus

Bone Marrow  
Intestine Small - Duodenum  
Ovary  
Spleen  
Thyroid Gland

Esophagus  
Intestine Small - Ileum  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

OBSERVATIONS

Adrenal Gland  
Brain  
Clitoral Gland  
    Note: ADENOMA      TGLs = 1-13  
Heart  
Intestine Large  
Intestine Small  
Kidney  
Liver  
  
    Note: INFLAMMATION      TGLs = 4-15  
Lymph Node  
Mammary Gland  
    Note: ECTASIA      TGLs = 2-7+7.1  
Mesentery  
    Note: NECROSIS      TGLs = 3-14+15  
Nose  
  
Pancreas  
Pituitary Gland

Cortex  
  
  
  
  
  
  
  
  
  
Mandibular  
Duct  
  
Fat  
  
  
Mucosa  
  
Pars Distalis

Hyperplasia  
Glioma Nos  
Adenoma  
  
Inflammation  
Autolysis  
Autolysis  
Nephropathy  
Basophilic Focus  
Inflammation  
  
Hyperplasia  
Ectasia  
  
Necrosis  
  
Fungus  
Inflammation  
Autolysis  
Cyst

Minimal  
  
  
  
Chronic, Minimal  
Moderate  
Moderate  
Minimal  
Multiple  
Acute, Mild  
  
Mild  
Minimal  
  
Focal, Mild  
  
Chronic Active, Mild  
Moderate  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone Marrow		Hypoplasia	Mild
Heart		Inflammation	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1,2-13+14			
Ovary	Follicle	Cyst	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Cyst	Mild
	Medulla	Hyperplasia	Minimal
Brain		Compression	Mild
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1,2-13+14		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-1		
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Minimal
Uterus		Dilatation	Mild
Note: DILATATION	TGLs = 4-7		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
Note: INFLAMMATION	TGLs = 3-2		
Mammary Gland	Duct	Ectasia	Minimal
Mesentery	Fat	Necrosis	Focal, Mild
Note: NECROSIS	TGLs = 2-13		
Nose	Mucosa	Inflammation	Chronic Active, Minimal
Pituitary Gland	Pars Distalis	Ectasia	Moderate
	Pars Distalis	Hyperplasia	Mild
Note: ECTASIA	TGLs = 4-1		
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Bone		Osteopetrosis	Moderate
Note: OSTEOPETROSIS TGLs = 4-14			
Clitoral Gland		Hyperplasia	Mild
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney		Infarct	Moderate
		Nephropathy	Mild
Note: INFARCT TGLs = 2-5-13			
Liver		Basophilic Focus	Multiple
		Bile Stasis	Mild
		Leukemia Mononuclear	
		Fibroadenoma	
Mammary Gland			
Note: FIBROADENOMA TGLs = 1-7+7.1			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Ectasia	Moderate
	Pars Distalis	Hyperplasia	Mild
Note: ECTASIA TGLs = 5-1			
Spleen		Leukemia Mononuclear	
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	Follicular Cel	Carcinoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 14

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 729

**DOSE:** UNTREATD CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A852753

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: CARCINOMA      TGLs = 3-3

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 2

SEX: Female

DAY ON TEST: 696

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Vagina

OBSERVATIONS

Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 7-1		
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Granulomatous, Mild
		Vacuolization Cytoplasmic	Moderate
Note: ANOM HEPAT LOB	TGLs = 5-14		
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA	TGLs = 1-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 6-1		
Stomach	Forestomach	Inflammation	Chronic, Moderate
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 3-13		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Hyperplasia	Minimal
		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA	TGLs = 1-13		
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
Note: ADENOMA	TGLs = 3-1		
Spleen			
Note: VERY CLOSE TO MONONUCLEAR CELL LEUKEMIA.			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 2

SEX: Female

DAY ON TEST: 591

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Minimal
Clitoral Gland		Inflammation	Acute, Minimal
Heart		Inflammation	Chronic, Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
		Hypertrophy	Focal, Mild
Note: HYPERTROPHY TGLs = 2-14			
Note: ANOM HEPAT LOB TGLs = 3-15			
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-13			
Pituitary Gland	Pars Distalis	Cyst	Minimal
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Minimal
Clitoral Gland		Inflammation	Chronic, Mild
Heart		Inflammation	Chronic, Minimal
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Minimal
Lymph Node	Mandibular	Congestion	Mild
Note: CONGESTION	TGLs = 1-7		
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 2

SEX: Female

DAY ON TEST: 655

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 3-14		
Heart		Inflammation	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Hematopoietic Cell Proliferation	Mild
Mammary Gland		Hyperplasia	Minimal
Note: HYPERPLASIA	TGLs = 1-7		
Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Distalis	Hypertrophy	Minimal
Note: CYST	TGLs = 7-1		
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 2-13		
Spleen		Hematopoietic Cell Proliferation Granulocytic	Moderate
Note: HEMA CL PR GRN	TGLs = 5-2		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 4-15		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 20

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 591

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852759

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

**MISSING**

Adrenal Gland - Medulla

**OBSERVATIONS**

Heart		Inflammation	Chronic, Minimal
Islets, Pancreatic		Hyperplasia	Minimal
Kidney		Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Infiltration Cellular	Lymphocyte, Minimal
		Fibroadenoma	
Mammary Gland			
Note: FIBROADENOMA	TGLs = 1-13		
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Brain		Compression	Mild
Heart		Inflammation	Chronic, Moderate
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 1-5		
Liver		Basophilic Focus	Multiple
		Leukemia Mononuclear	
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mandibular	Congestion	Mild
Mammary Gland	Duct	Ectasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-1		
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 2

SEX: Female

DAY ON TEST: 582

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 7-1		
Heart		Inflammation	Chronic, Minimal
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-5		
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Granulomatous, Moderate
Note: ANOM HEPAT LOB	TGLs = 8-17		
Lung	Alveolus, Epithelium	Hyperplasia	Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1,2,3,4-13+14+15		
Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 6-16		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 23	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 681
	<b>DOSE:</b> UNTREATD CONTROL	<b>DISP:</b> Moribund	<b>HISTO:</b> A852762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Minimal
Heart		Inflammation	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Mineralization	Minimal
		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB TGLs = 3-13			
Note: LEUKEMIA MONUC TGLs = 4-2			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Hyperplasia	Mild
Mammary Gland	Duct	Ectasia	Mild
		Hyperplasia	Minimal
Pancreas		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-1			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-2			
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Dilatation	Moderate

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 24

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 494

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852763

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Trachea	Uterus	

**OBSERVATIONS**

Heart		Inflammation	Chronic, Minimal
Kidney		Hydronephrosis	Mild
		Nephropathy	Moderate
Note: HYDRONEPHROSIS	TGLs = 4-5		
Liver		Vacuolization Cytoplasmic	Moderate
Note: VACUOLIZ CYTO	TGLs = 5-2		
Pituitary Gland	Pars Distalis	Cyst	Minimal
Spleen		Congestion	Minimal
		Ectasia	Mild
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Urinary Bladder		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 1,2-4		
Vagina		Leiomyosarcoma	
Note: LEIOMYOSAR	TGLs = 3-13		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland		Hyperplasia	Moderate
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
Lung		Congestion	Mild
Mammary Gland	Duct	Ectasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: TWO CELL TYPES INVOLVED.			
Thymus		Thymoma Benign	
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Polyp Stromal	

Note: POLYP STROMAL TGLs = 1-13

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 2

SEX: Female

DAY ON TEST: 378

DOSE: UNTREATD CONTROL

DISP: Dead

HISTO: A84032003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
[ Pheochromocytoma Benign TGLS = 1-8 ]			
Heart		Inflammation	Chronic, Mild
Intestine Large	Cecum	Autolysis	Moderate
	Colon	Autolysis	Moderate
	Rectum	Parasite Metazoan	
Intestine Small	Duodenum	Autolysis	Mild
	Ileum	Autolysis	Marked
	Jejunum	Autolysis	Marked
Kidney		Autolysis	Moderate
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-7		
Liver		Congestion	Moderate
Note: CONGESTION	TGLs = 4-5		
Lung		Congestion	Moderate
Note: CONGESTION	TGLs = 5-4		
Mesentery	Fat	Necrosis	Focal, Mild
Note: NECROSIS	TGLs = 3-21		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 2

SEX: Female

DAY ON TEST: 718

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
Blood Vessel		Mineralization	Moderate
Note: A NUMBER OF SMALLER BLOOD VESSELS HAVE MINERALIZATION.			
Brain		Compression	Mild
Heart		Inflammation	Chronic, Minimal
		Mineralization	Minimal
Kidney		Hydronephrosis	Moderate
	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 8-5+18			
Note: HYDRONEPHROSIS TGLs = 9-5+18			
Liver		Vacuolization Cytoplasmic	Mild
Lung	Alveolus	Mineralization	Minimal
Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
Note: ECTASIA TGLs = 1-7			
Note: FIBROADENOMA TGLs = 2,3,4-13+14+15			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 10-1			
Stomach	Forestomach	Hyperplasia	Moderate
	Glandular	Inflammation	Chronic, Mild
	Glandular	Mineralization	Marked

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 27

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 718

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852766

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Thyroid Gland

Forestomach

Ulcer

Marked

Ureter

C Cell

Hyperplasia

Marked

Note: INFLAMMATION TGLs = 6-16

Inflammation

Chronic, Minimal

Uterus

Endometrium

Sarcoma Stromal

Note: SARC STROMAL TGLs = 7-17

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
Bone Marrow		Myelofibrosis	Minimal
Heart		Inflammation	Chronic, Minimal
Intestine Large	Colon	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB TGLs = 4-14			
Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-3			
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 2-13			
Note: ECTASIA TGLs = 1-7			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-1			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-2			
Uterus		Dilatation	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852768

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Ovary	Parathyroid Gland	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

**OBSERVATIONS**

Adrenal Gland	Cortex	Ectasia	Mild
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Inflammation	Chronic, Moderate
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
Note: ECTASIA	TGLs = 1-7		
Note: FIBROADENOMA	TGLs = 2-13		
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild
Salivary Glands	Duct	Inflammation	Chronic, Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 2

SEX: Female

DAY ON TEST: 729

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Brain  
Intestine Large - Rectum  
Lung  
Pancreas  
Stomach - Forestomach  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Parathyroid Gland  
Stomach - Glandular  
Uterus

Bone  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Nose  
Salivary Glands  
Thymus

Bone Marrow  
Intestine Large - Colon  
Islets, Pancreatic  
Ovary  
Skin  
Trachea

OBSERVATIONS

Clitoral Gland

Hyperplasia  
Inflammation

Mild  
Acute, Moderate

Note: INFLAMMATION TGLs = 1-13+13.1

Heart  
Intestine Small  
Kidney  
Liver

Ileum

Inflammation  
Hyperplasia  
Nephropathy  
Hyperplasia  
Leukemia Mononuclear  
Ectasia  
Cyst  
Hypertrophy  
Leukemia Mononuclear

Chronic, Mild  
Lymphoid, Minimal  
Minimal  
Minimal  
Minimal  
Mild  
Minimal

Mammary Gland  
Pituitary Gland

Duct  
Pars Distalis  
Pars Distalis

Spleen

Note: LEUKEMIA MONUC TGLs = 2-2

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 31

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** UNTREATD CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A852770

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

**OBSERVATIONS**

Adrenal Gland	Cortex	Ectasia	Minimal
	Cortex	Hypertrophy	Minimal
Bone Marrow		Myelofibrosis	Minimal
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Mild
Lung		Congestion	Minimal
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Hypertrophy	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 2

SEX: Female

DAY ON TEST: 606

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Brain		Compression	Mild
Heart		Inflammation	Chronic, Minimal
Intestine Small	Duodenum	Inflammation	Acute, Minimal
Note: INFLAMMATION TGLs = 3-4			
Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Marked
Liver		Vacuolization Cytoplasmic	Moderate
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA TGLs = 1-7			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-1			
Stomach	Forestomach	Inflammation	Acute, Marked
	Glandular	Inflammation	Acute, Mild
Note: INFLAMMATION TGLs = 2-4			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 33

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** UNTREATD CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A852772

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder
Uterus			

**MISSING**

Clitoral Gland

**OBSERVATIONS**

Adrenal Gland	Cortex	Hypertrophy	Minimal
Brain		Compression	Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-13		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-1		
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
Clitoral Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 1-8			
Heart		Inflammation	Chronic, Mild
Kidney		Mineralization	Minimal
		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Clear Cell Focus	
Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
		Galactocele	
Note: GALACTOCELE TGLs = 2-13			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-1			
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 3,4-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 2

SEX: Female

DAY ON TEST: 687

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 5-1		
Heart		Inflammation	Chronic, Minimal
Kidney		Mineralization	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia	Minimal
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2,3-13+14		
Note: ECTASIA	TGLs = 1-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-15		
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 2-14			
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Ectasia	Minimal
		Fibroadenoma	
Note: ECTASIA TGLs = 3-7			
Note: FIBROADENOMA TGLs = 1-13			
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Moderate
Stomach	Forestomach	Mineralization	Minimal
	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla  
Intestine Large - Cecum  
Intestine Small - Ileum  
Ovary  
Stomach - Forestomach  
Urinary Bladder

Bone  
Intestine Large - Colon  
Intestine Small - Jejunum  
Parathyroid Gland  
Stomach - Glandular  
Uterus

Bone Marrow  
Intestine Large - Rectum  
Islets, Pancreatic  
Salivary Glands  
Thymus

Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Skin  
Trachea

OBSERVATIONS

Adrenal Gland  
Brain  
    Note: COMPRESSION   TGLs = 9-1  
Clitoral Gland  
  
    Note: ADENOMA        TGLs = 1-13  
    Note: CARCINOMA     TGLs = 2-14  
Heart  
Kidney  
Liver  
    Note: LEUKEMIA MONUC   TGLs = 6-2  
Lung  
  
    Note: LEUKEMIA MONUC   TGLs = 7-3  
Mammary Gland  
  
    Note: ECTASIA        TGLs = 3-7  
    Note: FIBROADENOMA   TGLs = 4-15  
Nose  
Pancreas  
Pituitary Gland  
    Note: ADENOMA        TGLs = 8-1  
Spleen

Cortex  
  
  
  
  
  
  
Alveolus  
  
  
Duct  
  
  
  
Nasolacrim Dct  
  
Pars Distalis

Hypertrophy  
Compression  
  
Adenoma  
Carcinoma  
  
Inflammation  
Nephropathy  
Leukemia Mononuclear  
  
Infiltration Cellular  
Leukemia Mononuclear  
  
Ectasia  
Fibroadenoma  
  
Inflammation  
Atrophy  
Adenoma  
  
Leukemia Mononuclear

Minimal  
Moderate  
  
  
  
Chronic, Minimal  
Moderate  
  
Histiocyte, Moderate  
  
Moderate  
  
  
Chronic, Minimal  
Focal, Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:19

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

**Lab:** SRI

---

**ANIMAL ID:** 37

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** UNTREATD CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A852776

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: LEUKEMIA MONUC TGLs = 5-2

Thyroid Gland

C Cell

Hyperplasia

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 2

SEX: Female

DAY ON TEST: 412

DOSE: UNTREATD CONTROL

DISP: Dead

HISTO: A84032004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lymph Node - Mandibular	Mammary Gland	Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Liver		Inflammation	Chronic, Moderate
		Necrosis	Marked
		Vacuolization Cytoplasmic	Mild
Note: INFLAMMATION	TGLs = 1-21		
Lung		Foreign Body	Mild
		Inflammation	Acute, Moderate
Note: INFLAMMATION	TGLs = 4-4+4.1		
Nose		Foreign Body	Moderate
	Mucosa	Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 2

SEX: Female

DAY ON TEST: 693

DOSE: UNTREATD CONTROL

DISP: Moribund

HISTO: A852778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Ectasia	Mild
	Cortex	Vacuolization Cytoplasmic	Mild
Clitoral Gland		Inflammation	Acute, Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Granulomatous, Minimal
		Vacuolization Cytoplasmic	Mild
Note: ANOM HEPAT LOB TGLs = 3-14			
Lymph Node	Mandibular	Hyperplasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-1			
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 1-13			
Stomach	Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
		Vacuolization Cytoplasmic	Minimal
Mammary Gland	Duct	Ectasia	Minimal
		Hyperplasia	Minimal
Note: ECTASIA	TGLs = 1-8		
Nose	Mucosa	Inflammation	Chronic Active, Minimal
Ovary	Follicle	Cyst	Minimal
Pancreas		Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 2-13		
Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA	TGLs = 1-7		
Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Ectasia	Minimal
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Brain	Meninges	Granular Cell Tumor Benign	
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Liver		Adenoma	
		Basophilic Focus	Multiple
Note: ADENOMA TGLs = 3-14			
Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
Note: ECTASIA TGLs = 1-7			
Note: FIBROADENOMA TGLs = 2-13			
Nose	Nasolacrim Dct	Inflammation	Chronic, Minimal
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-1			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852782

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

**OBSERVATIONS**

Brain		Compression	Minimal
Heart		Inflammation	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-2		
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia	Mild
Nose	Nasolacrim Dct	Cyst	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-1		
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-2		
Thyroid Gland	C Cell	Hyperplasia	Mild
Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 2

SEX: Female

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Minimal
Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-13			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Intermed	Cyst	Minimal
	Pars Distalis	Ectasia	Mild
	Pars Distalis	Hyperplasia	Mild
Note: ECTASIA TGLs = 2-1			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	Minimal
Heart		Inflammation	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
Lymph Node	Mandibular	Congestion	Minimal
Mammary Gland	Duct	Ectasia	Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 1-1		
Stomach	Glandular	Mineralization	Minimal
Thymus		Cyst	Minimal
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Ovary	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus	Vagina		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Hypertrophy	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Brain		Compression	Minimal
Heart		Inflammation	Chronic, Mild
Kidney		Mineralization	Minimal
		Nephropathy	Mild
Liver		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-2		
Lung		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC	TGLs = 8-3+3.1		
Lymph Node	Mandibular	Congestion	Mild
Mammary Gland	Duct	Carcinoma	
		Ectasia	Mild
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 4-14		
Note: ECTASIA	TGLs = 2-8.1		
Note: CARCINOMA	TGLs = 3-13		
Nose	Nasolacrim Dct	Inflammation	Acute, Mild
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 9-1		
Skin	Subcut Tiss	Lipoma	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:20

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

**Lab:** SRI

---

**ANIMAL ID:** 46

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** UNTREATD CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A852785

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: LIPOMA      TGLs = 5-15+15.1

Spleen

Leukemia Mononuclear

Thyroid Gland

C Cell

Hyperplasia

Moderate

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 47

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** UNTREATD CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A852786

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder
Uterus	Vagina		

**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-13		
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
Bone		Osteopetrosis	Minimal
Note: OSTEOPETROSIS TGLs = 4-9+15.1			
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Mild
Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1,3-13+14			
Note: ECTASIA TGLs = 2-7			
Nose	Nasolacrim Dct	Inflammation	Chronic, Mild
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-1			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 49

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 533

**DOSE:** UNTREATD CONTROL

**DISP:** Moribund

**HISTO:** A852788

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Mild
Pituitary Gland	Pars Distalis	Cyst	Minimal
Spleen		Hematopoietic Cell Proliferation Granulocytic	Mild
Stomach	Glandular	Mineralization	Mild
Vagina		Fibrosarcoma	
Note: FIBROSARC	TGLs = 1-13		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO: A852789

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

**OBSERVATIONS**

Adrenal Gland	Cortex	Hypertrophy	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Mild
Mammary Gland	Duct	Ectasia	Minimal
Note: ECTASIA	TGLs = 1-7		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
Note: ADENOMA	TGLs = 2-1		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852800

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Esophagus  
Intestine Small - Duodenum  
Lung  
Ovary  
Skin  
Thymus  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Pancreas  
Spleen  
Thyroid Gland

Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

**OBSERVATIONS**

Adrenal Gland  
Heart  
Kidney  
Liver

Cortex

Hyperplasia  
Inflammation  
Nephropathy  
Hepatodiaphragmatic Nodule

Mild  
Chronic, Minimal  
Minimal

Note: ANOM HEPAT LOB TGLs = 3-13

Pituitary Gland

Pars Distalis

Cyst

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Hypertrophy	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 4-14			
Lymph Node	Mesenteric	Pigmentation	Mild
Mammary Gland	Duct	Ectasia	Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Polyp Stromal	

Note: POLYP STROMAL TGLs = 3-7+13

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852802

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Islets, Pancreatic  
Ovary  
Skin  
Thymus

Bone  
Esophagus  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Spleen  
Trachea

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Pituitary Gland  
Stomach - Forestomach  
Urinary Bladder

Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Salivary Glands  
Stomach - Glandular  
Uterus

**OBSERVATIONS**

Adrenal Gland  
Eye  
    Note: CATARACT      TGLs = 1-13  
Heart  
Kidney  
Liver  
  
Mammary Gland  
    Note: ECTASIA      TGLs = 4-7  
Pancreas  
Thyroid Gland

Cortex  
Lens  
  
  
  
  
Duct  
  
  
C Cell

Hyperplasia  
Cataract  
  
Inflammation  
Nephropathy  
Basophilic Focus  
Infiltration Cellular  
Ectasia  
  
Atrophy  
Hyperplasia

Mild  
Moderate  
  
Chronic, Minimal  
Moderate  
Multiple  
Lymphocyte, Minimal  
Minimal  
  
Focal, Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 4

DOSE: 5.0%

SEX: Female

DISP: Moribund

DAY ON TEST: 505

HISTO: A852803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	Uterus

INSUFFICIENT TISSUE

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Congestion	Mild
Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Heart		Inflammation	Chronic, Minimal
Kidney	Epithelium, Renal Tubule	Degeneration	Moderate
		Nephropathy	Minimal
Note: DEGEN	TGLs = 9-5		
Liver		Necrosis	Minimal
Note: NECROSIS	TGLs = 8-2		
Lymph Node	Mandibular	Congestion	Mild
	Mediastinal	Congestion	Mild
	Mesenteric	Congestion	Minimal
	Inguinal	Hyperplasia	Mild
Note: CONGESTION	TGLs = 3,10,11-3+4+7		
Note: HYPERPLASIA	TGLs = 5-14		
Mammary Gland	Duct	Ectasia	Mild
Pituitary Gland	Pars Distalis	Cyst	Mild
Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 4-13		
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 7-2		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:20

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

**Lab:** SRI

---

**ANIMAL ID:** 64

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 505

**DOSE:** 5.0%

**DISP:** Moribund

**HISTO:** A852803

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 4

SEX: Female

DAY ON TEST: 592

DOSE: 5.0%

DISP: Moribund

HISTO: A852804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Clitoral Gland

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Liver

Lung

Lymph Node - Mandibular

Ovary

Parathyroid Gland

Salivary Glands

Skin

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Congestion

Mild

Cortex

Hyperplasia

Minimal

Cortex

Vacuolization Cytoplasmic

Mild

Heart

Inflammation

Chronic, Minimal

Intestine Large

Rectum

Parasite Metazoan

Kidney

Nephropathy

Minimal

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-13

Nose

Nasolacrim Dct

Inflammation

Chronic, Mild

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Cyst

Mild

Spleen

Hemangioma

Note: HEMANGIOMA TGLs = 5-14

Uterus

Dilatation

Moderate

Note: DILATATION TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 66

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 5.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852805

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Ovary  
Skin  
Thymus

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Spleen  
Trachea

Bone  
Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Nose  
Salivary Glands  
Stomach - Glandular

**OBSERVATIONS**

Heart		Inflammation	Chronic, Minimal
Kidney		Mineralization	Minimal
		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3,4-13+14		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-1		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus		Dilatation	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 4

DOSE: 5.0%

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: A852806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

MISSING

Clitoral Gland

OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
Brain		Compression	Mild
Clitoral Gl			
Note: FOUND ON RECUT.			
Note: NO DISCERNIBLE TISSUE. MAY BE ENVELOPED IN TUMOR. NOT			
Intestine Large	Colon	Parasite Metazoan	
Liver		Basophilic Focus	Multiple
Lymph Node	Mesenteric	Pigmentation	Mild
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-7+13			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-1			
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 4-14			
Spleen		Hematopoietic Cell Proliferation Granulocytic	Moderate
Thyroid Gland	C Cell	Hyperplasia	Minimal
Vagina		Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 5-6			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Mild
Brain		Compression	Moderate
Note: COMPRESSION TGLs = 10-1			
Heart		Inflammation	Chronic, Minimal
Islets, Pancreatic		Carcinoma	
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Inflammation	Acute, Mild
Lymph Node	Pancreatic	Ectasia	Mild
	Pancreatic	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 6-14			
Mammary Gland	Duct	Ectasia	Minimal
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 4-13			
Note: ECTASIA TGLs = 3-7			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hemorrhage	Marked
Note: ADENOMA TGLs = 9-1			
Spleen		Hematopoietic Cell Proliferation Granulocytic	Mild
Note: HEMA CL PR GRN TGLs = 5-2			
Stomach	Forestomach	Leiomyosarcoma	
	Glandular	Mineralization	Mild
Note: LEIOMYOSAR TGLs = 7-4			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:20

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

**Lab:** SRI

---

<b>ANIMAL ID:</b> 68	<b>TRT#:</b> 4 <b>DOSE:</b> 5.0%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 730 <b>HISTO:</b> A852807
----------------------	-------------------------------------	---	--

---

<b>ORGAN AND ACCOUNTABLE SITE STATUS</b>			
Uterus	Endometrium	Dilatation Polyp Stromal	Mild
Note: POLYP STROMAL	TGLs = 11-6		

---

<b>PRIMARY CAUSE OF DEATH</b>	-
-------------------------------	---

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852808

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Islets, Pancreatic  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Lung  
Ovary  
Skin  
Thymus  
Uterus

Bone  
Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Parathyroid Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**OBSERVATIONS**

Heart  
Intestine Small  
  
Kidney  
Liver  
Pancreas

Ileum  
Ileum

Inflammation  
Hyperplasia  
Pigmentation  
Nephropathy  
Basophilic Focus  
Atrophy

Chronic, Minimal  
Lymphoid, Minimal  
Minimal  
Minimal  
Multiple  
Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Minimal
Brain		Compression	Mild
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Ileum	Pigmentation	Mild
Note: HYPERPLASIA	TGLs = 4-4		
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3-13		
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-1		
Stomach	Forestomach	Mineralization	Minimal
	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 4

SEX: Female

DAY ON TEST: 627

DOSE: 5.0%

DISP: Moribund

HISTO: A852810

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

**OBSERVATIONS**

Adrenal Gland	Cortex	Congestion	Mild
Brain		Astrocytoma Nos	
Clitoral Gland		Inflammation	Acute, Minimal
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Chronic, Minimal
		Vacuolization Cytoplasmic	Moderate
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 4

DOSE: 5.0%

SEX: Female

DISP: Moribund

DAY ON TEST: 707

HISTO: A852811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Lung  
Parathyroid Gland  
Stomach - Glandular  
Vagina

Bone  
Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Salivary Glands  
Thymus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Nose  
Skin  
Trachea

Brain  
Intestine Large - Colon  
Islets, Pancreatic  
Ovary  
Stomach - Forestomach  
Urinary Bladder

OBSERVATIONS

Adrenal Gland  
Heart  
Intestine Small  
Kidney  
Liver  
    Note: LEUKEMIA MONUC TGLs = 9-2  
Mammary Gland  
    Note: ECTASIA TGLs = 3-7  
Mesentery  
    Note: SARCOMA TGLs = 10-15  
Pancreas  
Pituitary Gland  
  
Spleen  
  
    Note: FIBROSIS TGLs = 8-14  
    Note: LEUKEMIA MONUC TGLs = 7-2  
Thyroid Gland  
  
Uterus  
    Note: POLYP STROMAL TGLs = 6-13

Cortex  
  
Ileum  
  
  
  
Duct  
  
  
  
  
  
Pars Distalis  
Pars Distalis  
  
  
  
  
  
  
C Cell  
C Cell  
Endometrium

Hyperplasia  
Inflammation  
Hyperplasia  
Nephropathy  
Leukemia Mononuclear  
  
Ectasia  
  
Sarcoma  
  
Atrophy  
Cyst  
Ectasia  
Fibrosis  
Leukemia Mononuclear  
  
Adenoma  
Hyperplasia  
Polyp Stromal

Minimal  
Chronic, Minimal  
Lymphoid, Mild  
Minimal  
  
Mild  
  
  
  
Focal, Minimal  
Minimal  
Moderate  
Mild  
  
  
  
Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Cortex	Vacuolization Cytoplasmic	Moderate
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Ileum	Pigmentation	Minimal
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3-13		
Ovary	Follicle	Cyst	Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
Stomach	Forestomach	Mineralization	Minimal
	Glandular	Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 3-8		
Heart		Inflammation	Chronic, Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mesenteric	Pigmentation	Moderate
Mammary Gland	Duct	Ectasia	Minimal
		Hyperplasia	Minimal
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
[ Pheochromocytoma Benign TGLS = 3-13 ]			
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Ileum	Pigmentation	Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Granulomatous, Mild
Note: ANOM HEPAT LOB TGLs = 4-14			
Lymph Node	Mesenteric	Pigmentation	Minimal
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Lung  
Pancreas  
Spleen  
Urinary Bladder

Bone  
Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Parathyroid Gland  
Stomach - Forestomach  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Nose  
Salivary Glands  
Thymus

Brain  
Intestine Large - Colon  
Islets, Pancreatic  
Ovary  
Skin  
Trachea

OBSERVATIONS

Adrenal Gland  
Heart  
Intestine Small  
  
Kidney  
Liver

Cortex  
  
Ileum  
Ileum

Hypertrophy  
Inflammation  
Hyperplasia  
Pigmentation  
Mineralization  
Basophilic Focus  
Hepatodiaphragmatic Nodule  
Inflammation

Mild  
Chronic, Moderate  
Lymphoid, Mild  
Minimal  
Minimal  
Multiple  
Granulomatous, Minimal

Note: ANOM HEPAT LOB TGLs = 8-15

Lymph Node  
Mammary Gland

Mesenteric

Pigmentation  
Fibroadenoma

Mild

Note: FIBROADENOMA TGLs = 3,4-13+14

Mesentery  
Pituitary Gland

Pars Distalis  
Pars Distalis

Carcinoma  
Adenoma  
Cyst

Minimal

Note: ADENOMA TGLs = 7-1

Stomach  
Thyroid Gland

Glandular  
C Cell

Mineralization  
Hyperplasia

Mild  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A822816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Trachea	Urinary Bladder

OBSERVATIONS

Clitoral Gland		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 4-8		
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
	Ileum	Pigmentation	Minimal
Kidney	Renal Tubule	Hyperplasia	Moderate
		Mineralization	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Clear Cell Focus	
Lymph Node	Mesenteric	Pigmentation	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA	TGLs = 3-13		
Pituitary Gland	Pars Distalis	Adenoma	
Stomach	Glandular	Mineralization	Minimal
Thymus	Medulla	Hyperplasia	Minimal
Thyroid Gland	Follicular Cel	Carcinoma	
Note: CARCINOMA	TGLs = 5-3		
Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Jejunum	Hyperplasia	Lymphoid, Minimal
	Ileum	Pigmentation	Mild
	Jejunum	Pigmentation	Mild
Kidney		Mineralization	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 3-13			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 4-1			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Hypertrophy	Minimal
Clitoral Gland		Inflammation	Chronic, Mild
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
Mammary Gland		Fibroadenoma	
Pituitary Gland	Pars Distalis	Cyst	Minimal
Skeletal Muscle		Foreign Body	Mild
		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 2-13		
Uterus		Dilatation	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
Brain	Chor Plexus	Astrocytoma Nos	
		Meningioma Malignant	Metastatic (Brain)
		Meningioma Malignant	
Note: [ MENINGIOMA MAL ]	TGLs = 7-1+1.1		
Clitoral Gland		Inflammation	Acute, Mild
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Ileum	Pigmentation	Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Mesentery	Fat	Necrosis	Focal, Mild
Note: NECROSIS	TGLs = 3-13		
Pituitary Gland	Pars Distalis	Adenoma	
Stomach	Glandular	Mineralization	Moderate
Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 6-3		
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 5-14		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 4

SEX: Female

DAY ON TEST: 592

DOSE: 5.0%

DISP: Moribund

HISTO: A852820

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

**OBSERVATIONS**

Adrenal Gland	Cortex	Hyperplasia	Mild
Brain		Compression	Moderate
Heart		Inflammation	Chronic, Minimal
Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Ectasia	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-1		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Mineralization	Minimal
		Nephropathy	Mild
Liver		Adenoma	
		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Granulomatous, Minimal
Note: ANOM HEPAT LOB	TGLs = 4-14		
Note: ADENOMA	TGLs = 3-13		
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Ectasia	Mild
	Pars Distalis	Hyperplasia	Mild
Note: ECTASIA	TGLs = 5-1		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 3-8+13		
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Jejunum	Hyperplasia	Lymphoid, Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Acute, Mild
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Nose	Ovary	Pancreas	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Vagina		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
Bone		Osteopetrosis	Mild
Note: OSTEOPETROSIS TGLs = 3-9+10+11+12+13			
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mammary Gland	Duct	Ectasia	Minimal
		Hyperplasia	Minimal
Note: ECTASIA TGLs = 1-7			
Pituitary Gland	Pars Distalis	Ectasia	Minimal
	Pars Distalis	Hyperplasia	Minimal
Tongue	Epithelium	Hyperplasia	Focal, Marked
Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 85	<b>TRT#:</b> 4	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 731
	<b>DOSE:</b> 5.0%	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> A852824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Inflammation	Acute, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Vacuolization Cytoplasmic	Minimal
Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
Note: HYPERPLASIA TGLs = 4-7			
Note: FIBROADENOMA TGLs = 3-13			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Bone Marrow

Brain

Clitoral Gland

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mandibular

Nose

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Skin

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Trachea

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Cortex

Hyperplasia

Minimal

Bone

Osteopetrosis

Mild

Note: OSTEOPETROSIS TGLs = 5-9+10+11+12+15

Heart

Inflammation

Chronic, Minimal

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-13

Pituitary Gland

Pars Distalis

Cyst

Minimal

Pars Distalis

Hypertrophy

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 4-14

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Lung  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

Bone  
Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Salivary Glands  
Stomach - Glandular  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Mammary Gland  
Skin  
Thymus  
Vagina

Brain  
Intestine Large - Colon  
Islets, Pancreatic  
Ovary  
Spleen  
Trachea

OBSERVATIONS

Adrenal Gland  
  
Heart  
Intestine Small  
Kidney  
Liver

Cortex  
Cortex

Ileum

Ectasia  
Hypertrophy  
Inflammation  
Hyperplasia  
Nephropathy  
Basophilic Focus  
Hepatodiaphragmatic Nodule  
Leukemia Mononuclear

Minimal  
Minimal  
Chronic, Mild  
Lymphoid, Minimal  
Mild  
Multiple

Note: ANOM HEPAT LOB TGLs = 4-13

Nose

Mucosa

Foreign Body  
Inflammation

Mild  
Chronic Active, Minimal

Note: ALSO INFLAMMATION IN THE PALATE.

Pancreas  
Pituitary Gland  
  
Thyroid Gland

Pars Distalis  
Pars Distalis  
C Cell

Atrophy  
Cyst  
Hyperplasia  
Hyperplasia

Focal, Minimal  
Mild  
Mild  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 4

SEX: Female

DAY ON TEST: 624

DOSE: 5.0%

DISP: Dead

HISTO: A852827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex  
Clitoral Gland  
Lymph Node - Mandibular  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone  
Esophagus  
Nose  
Salivary Glands  
Thymus

Bone Marrow  
Islets, Pancreatic  
Ovary  
Skin  
Thyroid Gland

Brain  
Lung  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

OBSERVATIONS

Adrenal Gland  
Heart  
Intestine Large  
  
Intestine Small  
  
Kidney  
Liver

Medulla  
  
Cecum  
Colon  
Rectum  
Duodenum  
Ileum  
Jejunum

Hyperplasia  
Inflammation  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Autolysis  
Hematopoietic Cell Proliferation  
Hepatodiaphragmatic Nodule  
Necrosis

Mild  
Chronic, Minimal  
Mild  
Mild  
Mild  
Mild  
Moderate  
Marked  
Moderate  
Marked  
Moderate

Note: ANOM HEPAT LOB TGLs = 5-15  
Note: HEMA CELL PROL TGLs = 4-2+14

Mammary Gland

Note: FIBROADENOMA TGLs = 1-13

Pancreas

Spleen

Uterus

Note: POLYP STROMAL TGLs = 6-16

Fibroadenoma

Autolysis  
Hematopoietic Cell Proliferation Granulocytic  
Polyp Stromal

Mild  
Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852828

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Pancreas  
Spleen  
Urinary Bladder

Bone  
Esophagus  
Intestine Small - Duodenum  
Parathyroid Gland  
Stomach - Forestomach  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Lymph Node - Mandibular  
Salivary Glands  
Thymus

Brain  
Intestine Large - Colon  
Ovary  
Skin  
Trachea

**OBSERVATIONS**

Adrenal Gland  
Heart  
Intestine Small

Cortex  
Ileum  
Jejunum

Vacuolization Cytoplasmic  
Inflammation  
Hyperplasia  
Hyperplasia  
Adenoma  
Nephropathy  
Inflammation  
Vacuolization Cytoplasmic

Mild  
Chronic, Mild  
Lymphoid, Minimal  
Lymphoid, Mild

Islets, Pancreatic  
Kidney  
Liver

Adenoma  
Nephropathy  
Inflammation  
Vacuolization Cytoplasmic

Moderate  
Granulomatous, Mild  
Minimal

Lung  
Mammary Gland  
Nose

Alveolus, Epithelium  
Duct

Hyperplasia  
Ectasia  
Foreign Body

Minimal  
Mild  
Mild

Pituitary Gland  
Stomach  
Thyroid Gland

Mucosa  
Pars Distalis  
Glandular  
C Cell

Inflammation  
Adenoma  
Mineralization  
Adenoma

Chronic Active, Minimal  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 4

SEX: Female

DAY ON TEST: 535

DOSE: 5.0%

DISP: Moribund

HISTO: A852829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Lymph Node - Mandibular  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Brain  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Ovary  
Skin  
Thymus

Clitoral Gland  
Intestine Large - Colon  
Islets, Pancreatic  
Pancreas  
Spleen  
Thyroid Gland

OBSERVATIONS

Adrenal Gland  
Bone  
Intestine Small  
Kidney  
  
Liver  
Lung  
Mammary Gland  
Note: FIBROADENOMA TGLs = 3-13  
Pituitary Gland  
Uterus  
Note: POLYP STROMAL TGLs = 4-6

Cortex  
  
Ileum  
  
  
  
Pars Distalis  
Endometrium

Hyperplasia  
Osteopetrosis  
Hyperplasia  
Mineralization  
Nephropathy  
Basophilic Focus  
Hyperplasia  
Fibroadenoma  
  
Cyst  
Polyp Stromal

Minimal  
Minimal  
Lymphoid, Moderate  
Minimal  
Minimal  
Multiple  
Lymphoid, Minimal  
  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852830

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Mammary Gland	Nose	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	Uterus

**OBSERVATIONS**

Adrenal Gland	Medulla	Angiectasis	Minimal
	Medulla	Hyperplasia	Minimal
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Note: HYPERPLASIA	TGLs = 3-4		
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
		Vacuolization Cytoplasmic	Minimal
Pancreas		Inflammation	Acute, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-1		
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852831

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Mammary Gland	Nose	Ovary
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

**OBSERVATIONS**

Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Inflammation	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Mild
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
Stomach	Glandular	Mineralization	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Minimal
	Cortex	Vacuolization Cytoplasmic	Minimal
Heart		Inflammation	Chronic, Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Vacuolization Cytoplasmic	Minimal
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA	TGLs = 2-7		
Mesentery	Fat	Necrosis	Focal, Mild
Note: NECROSIS	TGLs = 3-14		
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Atrophy	Focal, Mild
Note: ATROPHY	TGLs = 4-13		
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Clitoral Gland

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mandibular

Ovary

Pancreas

Parathyroid Gland

Salivary Glands

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Trachea

Urinary Bladder

Uterus

MISSING

Skin

OBSERVATIONS

Adrenal Gland

Cortex

Ectasia

Minimal

Cortex

Hyperplasia

Minimal

Cortex

Vacuolization Cytoplasmic

Minimal

Heart

Inflammation

Chronic, Minimal

Intestine Large

Rectum

Parasite Metazoan

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Inflammation

Granulomatous, Minimal

Adenoma

Mammary Gland

Note: ADENOMA

TGLs = 3-13

Nose

Foreign Body

Mild

Mucosa

Inflammation

Chronic Active, Mild

Pars Distalis

Adenoma

Pituitary Gland

Note: ADENOMA

TGLs = 4-1

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Spleen  
Trachea

Bone  
Esophagus  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Salivary Glands  
Stomach - Glandular  
Uterus

Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Ovary  
Skin  
Thymus

OBSERVATIONS

Adrenal Gland  
Heart  
Kidney

Cortex  
Renal Tubule

Hypertrophy  
Inflammation  
Adenoma  
Infarct  
Nephropathy

Minimal  
Chronic, Minimal  
Mild  
Minimal

Note: ADENOMA TGLs = 3-13

Liver

Basophilic Focus  
Hepatodiaphragmatic Nodule

Multiple

Note: ANOM HEPAT LOB TGLs = 4-14

Mammary Gland

Duct

Ectasia

Mild

Note: ECTASIA TGLs = 2-7

Nose

Fungus  
Inflammation

Chronic Active, Moderate

Pituitary Gland

Mucosa  
Pars Distalis  
Pars Distalis

Adenoma  
Cyst

Moderate

Note: ADENOMA TGLs = 5-1

Note: CYST TGLs = 6-1

Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 96	<b>TRT#:</b> 4 <b>DOSE:</b> 5.0%	<b>SEX:</b> Female <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 627 <b>HISTO:</b> A852835
----------------------	-------------------------------------	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Brain		Compression	Mild
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
Lymph Node	Mesenteric	Pigmentation	Mild
Mammary Gland	Duct	Ectasia	Minimal
Note: ECTASIA	TGLs = 3-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-1		
Stomach	Forestomach	Hyperplasia	Minimal
	Forestomach	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852836

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Lung  
Pancreas  
Spleen  
Urinary Bladder

Bone  
Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Parathyroid Gland  
Stomach - Forestomach  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Nose  
Salivary Glands  
Thymus

Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Ovary  
Skin  
Trachea

**OBSERVATIONS**

Adrenal Gland  
  
Heart  
Islets, Pancreatic  
Kidney  
Liver

Cortex  
Cortex

Ectasia  
Hyperplasia  
Inflammation  
Adenoma  
Nephropathy  
Basophilic Focus  
Inflammation

Minimal  
Minimal  
Chronic, Minimal  
Minimal  
Multiple  
Granulomatous, Minimal

Lymph Node  
Mammary Gland  
Pituitary Gland

Mesenteric  
Duct  
Pars Distalis  
Pars Distalis

Pigmentation  
Ectasia  
Ectasia

Mild  
Mild  
Minimal

Stomach  
Thyroid Gland

Glandular  
C Cell

Mineralization  
Hyperplasia

Mild  
Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852837

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Lung  
Ovary  
Spleen  
Trachea

Bone  
Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Mammary Gland  
Salivary Glands  
Thymus  
Uterus

Brain  
Intestine Large - Colon  
Islets, Pancreatic  
Nose  
Skin  
Thyroid Gland

**OBSERVATIONS**

Adrenal Gland  
Heart  
Intestine Small  
  
Kidney  
  
Liver

Cortex  
  
Ileum  
Ileum  
Cortex

Hyperplasia  
Inflammation  
Hyperplasia  
Pigmentation  
Cyst  
Nephropathy  
Basophilic Focus  
Hepatodiaphragmatic Nodule

Minimal  
Chronic, Minimal  
Lymphoid, Mild  
Minimal  
Minimal  
Minimal  
Multiple

Note: ANOM HEPAT LOB TGLs = 4-13

Pancreas  
Pituitary Gland  
Stomach

Pars Distalis  
Glandular

Atrophy  
Cyst  
Mineralization

Focal, Minimal  
Minimal  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Mild
	Medulla	Pheochromocytoma Benign	
Bone		Osteopetrosis	Mild
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Focal, Mild
Note: NECROSIS	TGLs = 3-13		
Pituitary Gland	Pars Distalis	Cyst	Minimal
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 4,5-14+15		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Lung	Lymph Node - Mandibular	Mammary Gland
Nose	Ovary	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Jejunum	Necrosis	Focal, Moderate
	Jejunum	Pigmentation	Minimal
Islets, Pancreatic		Atypia Cellular	Mild
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Lymph Node	Mesenteric	Pigmentation	Mild
Pancreas		Atrophy	Focal, Minimal
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 4

SEX: Female

DAY ON TEST: 610

DOSE: 5.0%

DISP: Dead

HISTO: A852840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland	Esophagus	Lymph Node - Mandibular	Nose
Ovary	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone		Osteopetrosis	Mild
Bone Marrow		Autolysis	Marked
Brain		Leukemia Mononuclear	
Heart		Inflammation	Chronic, Minimal
Intestine Large	Cecum	Autolysis	Moderate
	Colon	Autolysis	Moderate
	Rectum	Autolysis	Moderate
Intestine Small	Duodenum	Autolysis	Moderate
	Ileum	Autolysis	Moderate
	Jejunum	Autolysis	Moderate
Islets, Pancreatic		Autolysis	Marked
Kidney		Autolysis	Marked
Liver		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Ectasia	Minimal
		Fibroadenoma	
Note: ECTASIA	TGLs = 3-7		
Note: FIBROADENOMA	TGLs = 4-13		
Pancreas		Autolysis	Marked
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2		
Stomach	Glandular	Autolysis	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Ectasia	Mild
Bone		Osteopetrosis	Minimal
Note: OSTEOPETROSIS TGLs = 4-13			
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney		Mineralization	Minimal
		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Note: SUSPECIOUS FOR MONONUCLEAR CELL LEUKEMIA.			
Mammary Gland	Duct	Ectasia	Minimal
Note: ECTASIA TGLs = 3-7			
Pituitary Gland	Pars Distalis	Cyst	Minimal
Stomach	Glandular	Mineralization	Minimal
Thymus		Cyst	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852842

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Clitoral Gland	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Pancreas	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder	Uterus	

**OBSERVATIONS**

Brain		Astrocytoma Nos	
Heart		Inflammation	Chronic, Minimal
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Pituitary Gland	Pars Distalis	Cyst	Minimal
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 4

DOSE: 5.0%

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: A852843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Mammary Gland
Nose	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Moderate
	Cortex	Hypertrophy	Mild
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Inflammation	Chronic, Minimal
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
	Jejunum	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 4-4			
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Hyperplasia	Mild
		Inflammation	Granulomatous, Minimal
Ovary		Granulosa Cell Tumor Benign	
Note: GRANLSA TM BGN TGLs = 3-6			
Pancreas		Atrophy	Focal, Minimal
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 5-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 4

DOSE: 5.0%

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: A852844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Clitoral Gland
Esophagus	Eye	Heart	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Jejunum
Lung	Lymph Node - Mandibular	Ovary	Parathyroid Gland
Salivary Glands	Skin	Spleen	Stomach - Forestomach
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Hypertrophy	Mild
Bone		Osteopetrosis	Mild
Note: OSTEOPETROSIS	TGLs = 4-14+9+11		
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
	Ileum	Pigmentation	Mild
Islets, Pancreatic		Atypia Cellular	Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 3-13		
Nose		Fungus	
	Mucosa	Inflammation	Chronic Active, Minimal
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Ectasia	Minimal
	Pars Distalis	Hyperplasia	Minimal
Note: ECTASIA	TGLs = 5-1		
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
Note: ADENOMA	TGLs = 6-3		
Uterus	Endometrium	Polyp Stromal	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:20

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

**Lab:** SRI

---

**ANIMAL ID:** 105

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 5.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852844

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 4

SEX: Female

DAY ON TEST: 618

DOSE: 5.0%

DISP: Moribund

HISTO: A852845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Nose	Ovary	Pancreas
Parathyroid Gland	Salivary Glands	Skin	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Moderate
Brain		Compression	Mild
Clitoral Gland		Inflammation	Chronic, Minimal
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Hyperplasia	Mild
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
Note: ECTASIA	TGLs = 3-7		
Note: FIBROADENOMA	TGLs = 4-13		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-1		
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Nose	Ovary	Parathyroid Gland
Skin	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Brain	Meninges	Infiltration Cellular	Lymphocyte, Mild
Clitoral Gland	Duct	Cyst	Minimal
Heart		Inflammation	Chronic, Mild
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Mild
Lymph Node	Mandibular	Congestion	Minimal
Note: CONGESTION TGLs = 4-7			
Mammary Gland	Duct	Ectasia	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 5,6,7-13+14+15			
Note: ECTASIA TGLs = 3-7			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-1			
Salivary Glands		Atrophy	Minimal
Stomach	Glandular	Mineralization	Minimal
Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Mammary Gland	Nose
Ovary	Parathyroid Gland	Salivary Glands	Skin
Spleen	Stomach - Forestomach	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Heart		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-1			
Stomach	Glandular	Mineralization	Mild
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Mammary Gland
Nose	Ovary	Parathyroid Gland	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Trachea
Urinary Bladder	Uterus		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
Brain		Compression	Mild
Heart		Inflammation	Chronic, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Mild
Lymph Node	Mandibular	Hyperplasia	Reticulum Cell, Minimal
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-1		
Stomach	Glandular	Mineralization	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 5.0%

DISP: Terminal Sacrifice

HISTO: A852849

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Clitoral Gland  
Intestine Large - Rectum  
Lung  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

Bone  
Esophagus  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Salivary Glands  
Stomach - Glandular  
Uterus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Nose  
Skin  
Thymus

Brain  
Intestine Large - Colon  
Islets, Pancreatic  
Ovary  
Spleen  
Trachea

**OBSERVATIONS**

Adrenal Gland  
Heart  
Intestine Small  
Kidney  
Liver  
Mammary Gland

Cortex  
  
Ileum  
  
Duct

Ectasia  
Inflammation  
Hyperplasia  
Nephropathy  
Basophilic Focus  
Ectasia  
Fibroadenoma

Mild  
Chronic, Minimal  
Lymphoid, Mild  
Moderate  
Multiple  
Minimal

Note: FIBROADENOMA TGLs = 4-13

Note: ECTASIA TGLs = 3-7

Pancreas  
Pituitary Gland  
  
Thyroid Gland

Pars Distalis  
Pars Distalis  
Follicular Cel

Atrophy  
Cyst  
Hyperplasia  
Adenoma

Focal, Mild  
Minimal  
Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852860

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Uterus

Liver

Spleen

Thyroid Gland

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Jejunum

Hyperplasia

Lymphoid, Minimal

Islets, Pancreatic

Adenoma

Kidney

Nephropathy

Moderate

Note: NEPHROPATHY TGLs = 4-5

Mammary Gland

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 3-7

Pancreas

Atrophy

Focal, Mild

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 5-1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 6

SEX: Female

DAY ON TEST: 572

DOSE: 2.5%

DISP: Moribund

HISTO: A852861

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Uterus
----------------	--------------------	----------	--------

**OBSERVATIONS**

Bone Marrow		Leukemia Mononuclear	
-------------	--	----------------------	--

[ Leukemia Mononuclear TGLS = 7-9 ]

Kidney		Nephropathy	Minimal
--------	--	-------------	---------

Liver		Leukemia Mononuclear	
-------	--	----------------------	--

[ Leukemia Mononuclear TGLS = 5-2 ]

Pituitary Gland	Pars Distalis	Adenoma	
-----------------	---------------	---------	--

[ Adenoma TGLS = 6-1 ]

Spleen		Leukemia Mononuclear	
--------	--	----------------------	--

[ Leukemia Mononuclear TGLS = 4-2 ]

Thyroid Gland	C Cell	Hyperplasia	Minimal
---------------	--------	-------------	---------

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
 Test Type: CHRONIC  
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: C.I. Pigment red 23  
 CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
 Time Report Requested: 14:12:20  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 123	TRT#: 6 DOSE: 2.5%	SEX: Female DISP: Moribund	DAY ON TEST: 325 HISTO: A84031025
----------------	-----------------------	-------------------------------	--------------------------------------

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Pituitary Gland
Thyroid Gland	Uterus		

**OBSERVATIONS**

Eye	Lens	Cataract	Moderate
	Retina	Degeneration	Marked
Note: CATARACT TGLs = 1-44			
Liver		Leukocytosis	Mild
[ Leukocytosis TGLS = 6-5 ]			
Lung		Carcinoma	Metastatic (Skin)
Note: CARCINOMA TGLs = 7,8-4			
Note: CARCINOMA IS SITED IN THE SEBACEOUS GLAND.			
Skin	Sebaceous GI	Carcinoma	
Note: CARCINOMA TGLs = 4-21			
Spleen		Hematopoietic Cell Proliferation Granulocytic	Moderate
Note: HEMA CL PR GRN TGLs = 5-2			
Tissue NOS	Mediastinum	Myxoma	
Note: MYXOMA TGLs = 9-22			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852863

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Uterus

Islets, Pancreatic

Pancreas

Spleen

**OBSERVATIONS**

Intestine Small  
Kidney  
Liver

Ileum

Hyperplasia  
Nephropathy  
Basophilic Focus  
Hyperplasia

Lymphoid, Mild  
Mild  
Multiple  
Mild

Mammary Gland

Note: HYPERPLASIA TGLs = 3-7

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 4-1

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

<b>ANIMAL ID:</b> 125	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> A852864
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Islets, Pancreatic	Pancreas	Spleen	Uterus
<b>OBSERVATIONS</b>			
Clitoral Gland		Inflammation	Acute, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
	Ileum	Pigmentation	Minimal
	Jejunum	Pigmentation	Minimal
Note: HYPERPLASIA TGLs = 4-4			
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 3-13			
Pituitary Gland	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 2.5%

DISP: Moribund

HISTO: A852865

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic  
Uterus

Pancreas

Spleen

Thyroid Gland

**OBSERVATIONS**

Bone

Osteopetrosis

Mild

Note: OSTEOPETROSIS TGLs = 7-15+10+11+12

Brain

Compression

Moderate

[ Compression TGLS = 9-1 ]

Clitoral Gland

Inflammation

Acute, Mild

Kidney

Nephropathy

Moderate

Liver

Vacuolization Cytoplasmic

Marked

[ Vacuolization Cytoplasmic TGLS = 6-2+14 ]

Mammary Gland

Duct

Ectasia

Moderate

Fibroadenoma

[ Ectasia TGLS = 3-7 ]

[ Fibroadenoma TGLS = 4-13 ]

Pituitary Gland

Pars Distalis

Adenoma

[ Adenoma TGLS = 8-16 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 6

SEX: Female

DAY ON TEST: 564

DOSE: 2.5%

DISP: Moribund

HISTO: A852866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland

Islets, Pancreatic

Liver

Pituitary Gland

OBSERVATIONS

Blood

Polychromasia

Moderate

Note: POLYCHROMASIA TGLs = 1-61

Kidney

Nephropathy

Minimal

Lung

Carcinoma

Metastatic (Ovary)

Note: CARCINOMA TGLs = 9,10-3+3.1

Lymph Node

Lumbar

Carcinoma

Metastatic (Ovary)

Renal

Carcinoma

Metastatic (Ovary)

Note: CARCINOMA TGLs = 7,8-15+16

Mesentery

Carcinoma

Metastatic (Ovary)

Note: CARCINOMA TGLs = 6-14

Ovary

Carcinoma

Note: CARCINOMA TGLs = 4-13

Pancreas

Atrophy

Focal, Minimal

Spleen

Hematopoietic Cell Proliferation

Moderate

Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

Uterus

Carcinoma

Metastatic (Ovary)

Note: CARCINOMA TGLs = 5-17

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:20

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

**Lab:** SRI

---

**ANIMAL ID:** 128

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 2.5%

**DISP:** Terminal Sacrifice

**HISTO:** A852867

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland  
Thyroid Gland

Islets, Pancreatic  
Uterus

Pancreas

Spleen

---

**OBSERVATIONS**

Intestine Small  
Kidney  
Liver  
Pituitary Gland

Ileum

Pars Distalis

Hyperplasia  
Nephropathy  
Basophilic Focus  
Hyperplasia

Lymphoid, Moderate  
Moderate  
Multiple  
Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 129

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 662

**DOSE:** 2.5%

**DISP:** Dead

**HISTO:** A852868

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Thyroid Gland
Uterus			

**OBSERVATIONS**

Liver		Hepatodiaphragmatic Nodule Leukemia Mononuclear
[ Hepatodiaphragmatic Nodule TGLS = 8-21+21.1 ]		
[ Leukemia Mononuclear TGLS = 6-2+21+21.1 ]		
Pituitary Gland	Pars Distalis	Adenoma
[ Adenoma TGLS = 7-1+1.1 ]		
Spleen		Leukemia Mononuclear
[ Leukemia Mononuclear TGLS = 4-2 ]		

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 6

SEX: Female

DAY ON TEST: 595

DOSE: 2.5%

DISP: Dead

HISTO: A852869

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Thyroid Gland	Uterus		

**OBSERVATIONS**

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
[ Pheochromocytoma Malignant TGLS = 4-13 ]			
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
Lung		Congestion	Marked
Note: CONGESTION	TGLs = 5-3		
Mammary Gland	Duct	Ectasia	Minimal
Note: ECTASIA	TGLs = 3-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 6-1		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 6

SEX: Female

DAY ON TEST: 501

DOSE: 2.5%

DISP: Moribund

HISTO: A852870

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

**OBSERVATIONS**

Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Vacuolization Cytoplasmic	Mild
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 3-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-13		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852871

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Uterus

Islets, Pancreatic

Pancreas

Spleen

**OBSERVATIONS**

Bone

Osteopetrosis

Mild

Note: OSTEOPETROSIS TGLs = 6-14+9

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Vacuolization Cytoplasmic

Minimal

Mammary Gland

Duct

Ectasia

Mild

Fibroadenoma

Note: ECTASIA TGLs = 3-7

Note: FIBROADENOMA TGLs = 4-13

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 7-1

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852872

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Islets, Pancreatic

Spleen

Uterus

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Marked

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Multiple

Mammary Gland

Duct

Ectasia

Mild

Note: ECTASIA TGLs = 2-7

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 3-1

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 6

SEX: Female

DAY ON TEST: 457

DOSE: 2.5%

DISP: Moribund

HISTO: A84032523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland

Islets, Pancreatic

Pituitary Gland

Thyroid Gland

OBSERVATIONS

Intestine Large

Colon

Fibrosarcoma

Metastatic (Uterus)

Note: FIBROSARC TGLs = 8,9-22

Kidney

Hydronephrosis

Moderate

[ Hydronephrosis TGLS = 7-7 ]

Liver

Fibrosarcoma

Metastatic (Uterus)

Note: FIBROSARC TGLs = 6-5

Lung

Fibrosarcoma

Metastatic (Uterus)

Note: FIBROSARC TGLs = 12-4

Mesentery

Fibrosarcoma

Metastatic (Uterus)

Note: FIBROSARC TGLs = 5,10,11-21+23+24

Pancreas

Atrophy

Focal, Minimal

Spleen

Fibrosarcoma

Metastatic (Uterus)

Uterus

Fibrosarcoma

Note: FIBROSARC TGLs = 3,4-9+25

Note: TUMOR MAY HAVE ARISEN FORM A SARCOMATOUS POLYP.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 135	TRT#: 6 DOSE: 2.5%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO: A852874
----------------	-----------------------	---	------------------------------------

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Islets, Pancreatic	Pancreas	Spleen	Uterus
<b>OBSERVATIONS</b>			
Clitoral Gland	Duct	Ectasia	Moderate
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Chronic, Minimal
Mammary Gland	Duct	Ectasia	Minimal
		Hyperplasia	Minimal
Note: ECTASIA	TGLs = 3-7		
Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 6

SEX: Female

DAY ON TEST: 491

DOSE: 2.5%

DISP: Moribund

HISTO: A852875

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Spleen

Uterus

**OBSERVATIONS**

Islets, Pancreatic

Atypia Cellular

Minimal

Liver

Basophilic Focus

Multiple

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-13

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 137	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 651 <b>HISTO:</b> A852876
-----------------------	-------------------------------------	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
Islets, Pancreatic	Pancreas	Spleen	Uterus
<b>OBSERVATIONS</b>			
Bone Note: OSTEOPETROSIS TGLs = 5-14+14.1+10		Osteopetrosis	Mild
Clitoral Gland Note: INFLAMMATION TGLs = 7-8		Hyperplasia Inflammation	Mild Acute, Mild
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Liver [ Basophilic Focus TGLS = 4-13 ]		Basophilic Focus Hepatodiaphragmatic Nodule	Multiple
Mammary Gland Note: ECTASIA TGLs = 3-7	Duct	Ectasia	Moderate
Pituitary Gland Note: ADENOMA TGLs = 6-1	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Adenoma	
<b>PRIMARY CAUSE OF DEATH</b>			
-			

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 138	TRT#: 6 DOSE: 2.5%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO: A852877
----------------	-----------------------	---	------------------------------------

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

NORMAL

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
<b>OBSERVATIONS</b>			
Intestine Small	Jejunum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-1			
Thyroid Gland	Follicle	Cyst	Minimal
	C Cell	Hyperplasia	Mild
Uterus		Cyst	Marked
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-6			
Note: CYST TGLs = 1-6			

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852878

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Uterus

Islets, Pancreatic

Pancreas

Spleen

**OBSERVATIONS**

Intestine Small  
Kidney  
Liver

Ileum

Hyperplasia  
Nephropathy  
Basophilic Focus  
Necrosis

Lymphoid, Mild  
Mild  
Multiple  
Focal, Mild

Mesentery  
Note: NECROSIS      TGLs = 2-13

Fat

Pituitary Gland  
Thyroid Gland

Pars Distalis  
Bilateral, C Cell

Cyst  
Adenoma

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852879

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Pituitary Gland
Spleen	Uterus		

**OBSERVATIONS**

Bone		Osteopetrosis	Mild
[ Osteopetrosis TGLS = 7-10+14 ]			
Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
[ Basophilic Focus TGLS = 5-13 ]			
Lung		Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 6-3+3.1			
Mammary Gland		Adenoma	
	Duct	Ectasia	Mild
Note: ADENOMA TGLs = 3-15			
Note: ECTASIA TGLs = 4-7+7.1+7.2			
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Islets, Pancreatic

Spleen

Uterus

OBSERVATIONS

Clitoral Gland

Adenoma

Note: ADENOMA TGLs = 5-8+14

Intestine Small

Ileum

Hyperplasia

Lymphoid, Moderate

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Mammary Gland

Fibroadenoma

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 4-7

[ Hyperplasia TGLS = 3-13 ]

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Skeletal Muscle

Cyst

Moderate

Note: CYST TGLs = 6-15

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 142	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 688 <b>HISTO:</b> A852881
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

---

**OBSERVATIONS**

Brain		Compression	Mild
[ Compression TGLS = 9-1 ]			
Kidney		Nephropathy	Mild
Liver		Hepatodiaphragmatic Nodule Inflammation	Granulomatous, Moderate
Note: ANOM HEPAT LOB TGLs = 7-16			
Mammary Gland	Duct	Ectasia Fibroadenoma	Mild
Note: FIBROADENOMA TGLs = 4,5,6-13+14+15			
Note: ECTASIA TGLs = 3-7			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-1			
Thyroid Gland	C Cell	Adenoma	

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 143	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> A852882
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

---

**OBSERVATIONS**

Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
	Ileum	Pigmentation	Minimal
Kidney		Nephropathy	Moderate
[ Nephropathy TGLS = 3-5 ]			
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 2-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-1		
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852883

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic

Pancreas

**OBSERVATIONS**

Clitoral Gland

Carcinoma

Note: CARCINOMA TGLs = 3-13

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Multiple

Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Distalis

Hyperplasia

Mild

Spleen

Hematopoietic Cell Proliferation

Moderate

Note: HEMA CELL PROL TGLs = 5-2

Thyroid Gland

C Cell

Hyperplasia

Mild

Uterus

Dilatation

Moderate

Note: DILATATION TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland	Islets, Pancreatic	Pancreas	Uterus
<b>OBSERVATIONS</b>			
Bone [ Osteopetrosis TGLS = 5-10+11+12 ]		Osteopetrosis	Minimal
Intestine Small	Ileum Ileum	Hyperplasia Pigmentation	Lymphoid, Moderate Minimal
Kidney		Nephropathy	Mild
Liver		Basophilic Focus Vacuolization Cytoplasmic	Multiple Minimal
Mammary Gland Note: ECTASIA TGLs = 2-7	Duct	Ectasia	Mild
Mesentery Note: NECROSIS TGLs = 3-13	Fat	Necrosis	Focal, Mild
Pituitary Gland Note: ADENOMA TGLs = 4-1	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852885

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic

Spleen

Uterus

**OBSERVATIONS**

Clitoral Gland

Adenoma

Kidney

Congestion

Mild

Nephropathy

Moderate

[ Congestion TGLS = 3-5 ]

Liver

Basophilic Focus

Multiple

Pancreas

Atrophy

Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

<b>ANIMAL ID:</b> 147	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> A852886
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Uterus
----------------	--------------------	----------	--------

---

**OBSERVATIONS**

Kidney		Nephropathy	Mild
Liver		Basophilic Focus Leukemia Mononuclear	Multiple
[ Basophilic Focus TGLS = 3-2 ]			
Mammary Gland Note: ECTASIA TGLs = 2-7	Duct	Ectasia	Moderate
Pituitary Gland Note: ADENOMA TGLs = 4-1	Pars Distalis	Adenoma	
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Hyperplasia	Moderate

---

PRIMARY CAUSE OF DEATH -

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
 Test Type: CHRONIC  
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: C.I. Pigment red 23  
 CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
 Time Report Requested: 14:12:20  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 148	TRT#: 6 DOSE: 2.5%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: A852887
----------------	-----------------------	---	------------------------------------

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Spleen	Uterus
<b>OBSERVATIONS</b>			
Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Mild
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 8-3			
Mammary Gland		Adenoma	
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 3,4-14+15			
Note: ADENOMA TGLs = 2-13			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 6-1			
Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 7-3			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852888

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic

Pancreas

Spleen

Uterus

**OBSERVATIONS**

Clitoral Gland

Inflammation

Chronic, Minimal

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Hepatodiaphragmatic Nodule

Inflammation

Granulomatous, Minimal

[ Basophilic Focus TGLS = 1-13 ]

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 2-1

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

<b>ANIMAL ID:</b> 150	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Dead	<b>DAY ON TEST:</b> 631 <b>HISTO:</b> A852889
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

---

**OBSERVATIONS**

Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Liver		Vacuolization Cytoplasmic	Moderate
Lung		Congestion	Mild
Note: CONGESTION	TGLs = 5-3		
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA	TGLs = 3-7		
Pituitary Gland	Pars Distalis	Ectasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland

Islets, Pancreatic

Uterus

OBSERVATIONS

Bone

Osteopetrosis

Moderate

[ Osteopetrosis TGLS = 5,7-9+13+13.1 ]

Intestine Small

Ileum

Hyperplasia

Lymphoid, Moderate

Kidney

Nephropathy

Moderate

Liver

Vacuolization Cytoplasmic

Minimal

Lung

Hemorrhage

Minimal

Note: HEMORRHAGE TGLs = 4-3+3.1

Mammary Gland

Duct

Ectasia

Moderate

Note: ECTASIA TGLs = 3-7

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 6-1

Spleen

Hematopoietic Cell Proliferation Erythrocytic

Moderate

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 152	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 732 <b>HISTO:</b> A852891
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Pancreas	Spleen	Uterus
----------------	----------	--------	--------

---

**OBSERVATIONS**

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Mild
Lymph Node	Mandibular	Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 3-7		
Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

<b>ANIMAL ID:</b> 153	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 655 <b>HISTO:</b> A852892
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Spleen	Thyroid Gland
Uterus			

---

**OBSERVATIONS**

Brain		Compression Gliosis	Mild Focal, Mild
[ Compression TGLS = 5-1 ]			
Kidney		Nephropathy	Mild
Liver		Basophilic Focus Ectasia	Multiple Minimal
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA      TGLs = 3-7			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA      TGLs = 4-13			

---

PRIMARY CAUSE OF DEATH

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 154	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> A852893
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

---

**OBSERVATIONS**

Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
	Ileum	Pigmentation	Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 1-7		
Pituitary Gland	Pars Distalis	Cyst	Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 155	TRT#: 6 DOSE: 2.5%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: A852894
----------------	-----------------------	---	------------------------------------

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Islets, Pancreatic Uterus	Pituitary Gland	Skin	Spleen
------------------------------	-----------------	------	--------

---

**OBSERVATIONS**

Clitoral Gland Note: INFLAMMATION TGLs = 1-13		Inflammation	Acute, Moderate
Ear Note: PAPILLOMA SQUA TGLs = 5-15	Pinna	Squamous Cell Papilloma	
Kidney [ Congestion TGLS = 4-5 ]		Congestion Nephropathy	Minimal Mild
Liver		Basophilic Focus Inflammation	Multiple Granulomatous, Mild
Mammary Gland Note: HYPERPLASIA TGLs = 2-7 Note: ECTASIA TGLs = 3-14	Duct	Ectasia Hyperplasia	Mild Mild
Pancreas		Atrophy	Focal, Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852895

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic

Pancreas

Spleen

Uterus

**OBSERVATIONS**

Clitoral Gland

Adenoma

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Multiple

Hepatodiaphragmatic Nodule

[ Basophilic Focus TGLS = 3-14 ]

Mesentery

Fat

Necrosis

Focal, Mild

Note: NECROSIS

TGLs = 2-13

Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Distalis

Hyperplasia

Mild

Thyroid Gland

C Cell

Carcinoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland

Islets, Pancreatic

Pancreas

Spleen

OBSERVATIONS

Bone

Osteopetrosis

Marked

[ Osteopetrosis TGLS = 3,4-8+10+11+12+14+14.1 ]

Intestine Small

Ileum

Hyperplasia

Lymphoid, Moderate

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Multiple

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-13

Pituitary Gland

Pars Distalis

Ectasia

Minimal

Pars Distalis

Hyperplasia

Minimal

Thyroid Gland

C Cell

Hyperplasia

Mild

Uterus

Leiomyoma

Note: LEIOMYOMA TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 159	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> A852898
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

---

**OBSERVATIONS**

Liver		Basophilic Focus Inflammation Fibroadenoma	Multiple Granulomatous, Minimal
Mammary Gland Note: FIBROADENOMA TGLs = 2-13			
Mesentery Note: NECROSIS TGLs = 3-14	Fat	Necrosis	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 160	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> A852899
-----------------------	-------------------------------------	---	--

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Spleen	
<b>OBSERVATIONS</b>			
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA      TGLs = 1-7			
Pancreas		Atrophy	Focal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA      TGLs = 3-1			
Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Marked
Note: CARCINOMA      TGLs = 2-3			
Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 161	TRT#: 6 DOSE: 2.5%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: A852900
----------------	-----------------------	---	------------------------------------

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

NORMAL

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
----------------	--------------------	----------	--------

---

OBSERVATIONS

Bone		Osteopetrosis	Marked
[ Osteopetrosis TGLS = 7,8-9+10+11+12+17 ]			
Kidney		Nephropathy	Mild
Liver		Adenoma	
[ Adenoma TGLS = 6-16 ]			
Mammary Gland	Duct	Ectasia	Minimal
[ Ectasia TGLS = 2-7 ]			
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Moderate
Uterus	Endometrium	Polyp Stromal	
	Endometrium	Sarcoma Stromal	
Note: SARC STROMAL	TGLs = 4,5-14+15		
Note: POLYP STROMAL	TGLs = 3-13		

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852901

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Pituitary Gland

Spleen

Uterus

**OBSERVATIONS**

Bone

Osteopetrosis

Moderate

[ Osteopetrosis TGLS = 4-9+10 ]

Intestine Small

Ileum

Hyperplasia

Lymphoid, Moderate

Islets, Pancreatic

Atypia Cellular

Mild

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Hepatodiaphragmatic Nodule

[ Basophilic Focus TGLS = 3-13 ]

Pancreas

Ectopic Liver

Minimal

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 163	<b>TRT#:</b> 6 <b>DOSE:</b> 2.5%	<b>SEX:</b> Female <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 693 <b>HISTO:</b> A852902
-----------------------	-------------------------------------	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Islets, Pancreatic	Pancreas	Spleen	
--------------------	----------	--------	--

OBSERVATIONS

Clitoral Gland		Inflammation	Chronic, Minimal
Kidney		Nephropathy	Mild
[ Nephropathy TGLS = 7-5 ]			
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
Note: ECTASIA	TGLs = 3-7		
Note: FIBROADENOMA	TGLs = 4-13		
Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Ectasia	Mild
	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Marked
Uterus	Cervix, Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 5,6-6+6.1		

PRIMARY CAUSE OF DEATH	-
------------------------	---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 6

SEX: Female

DAY ON TEST: 618

DOSE: 2.5%

DISP: Moribund

HISTO: A852903

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic

Pancreas

Spleen

**MISSING**

Clitoral Gland

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Multiple

Inflammation

Granulomatous, Minimal

Fibroadenoma

Mammary Gland

Note: FIBROADENOMA TGLs = 1-13

Pituitary Gland

Pars Distalis

Cyst

Mild

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Dilatation

Mild

Note: DILATATION TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 165	TRT#: 6 DOSE: 2.5%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: A852904
----------------	-----------------------	---	------------------------------------

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Islets, Pancreatic

Pancreas

Spleen

Uterus

---

**OBSERVATIONS**

Clitoral Gland

Inflammation

Acute, Mild

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Kidney

Congestion

Mild

Nephropathy

Minimal

[ Congestion TGLS = 3-5 ]

Liver

Basophilic Focus

Multiple

Inflammation

Granulomatous, Minimal

Pituitary Gland

Pars Distalis

Adenoma

Thyroid Gland

C Cell

Hyperplasia

Marked

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 6

SEX: Female

DAY ON TEST: 546

DOSE: 2.5%

DISP: Moribund

HISTO: A852905

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic  
Thyroid Gland

Pancreas

Pituitary Gland

Spleen

**MISSING**

Clitoral Gland

**OBSERVATIONS**

Liver

Basophilic Focus

Multiple

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-13

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 4-14

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852906

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Thyroid Gland

Islets, Pancreatic  
Uterus

Pancreas

Spleen

**OBSERVATIONS**

Kidney  
Liver  
Mammary Gland

Duct

Nephropathy  
Inflammation  
Ectasia  
Fibroadenoma

Moderate  
Granulomatous, Minimal  
Moderate

Note: ECTASIA TGLs = 4-7  
[ Ectasia TGLS = 3-13 ]

Mesentery  
Pituitary Gland

Fat

Necrosis

Focal, Mild

Note: NECROSIS TGLs = 6-15

Zymbal's Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 7-1  
Note: ADENOMA TGLs = 5-14

Adenoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852907

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic

**MISSING**

Clitoral Gland

**OBSERVATIONS**

Intestine Small	Ileum	Hyperplasia	Lymphoid, Moderate
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Pancreas		Atrophy	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-1		
Spleen		Hematopoietic Cell Proliferation Erythrocytic	Marked
Note: HEMA CL PR ERY	TGLs = 1-2		
Thyroid Gland	C Cell	Hyperplasia	Minimal
Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 4-14		
Vagina		Sarcoma	
Note: SARCOMA	TGLs = 3-13		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 6

SEX: Female

DAY ON TEST: 612

DOSE: 2.5%

DISP: Moribund

HISTO: A852908

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Uterus

Islets, Pancreatic

Pancreas

Spleen

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Ileum

Pigmentation

Minimal

Kidney

Nephropathy

Mild

Liver

Hepatodiaphragmatic Nodule

Inflammation

Granulomatous, Minimal

[ Hepatodiaphragmatic Nodule TGLS = 3-13 ]

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA

TGLs = 4-1

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 170

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 2.5%

DISP: Terminal Sacrifice

HISTO: A852909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland

Islets, Pancreatic

Pancreas

Spleen

OBSERVATIONS

Intestine Small

Ileum

Hyperplasia

Lymphoid, Moderate

Jejunum

Hyperplasia

Lymphoid, Minimal

Ileum

Pigmentation

Moderate

Jejunum

Pigmentation

Mild

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Multiple

Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

Thyroid Gland

Follicle

Cyst

Mild

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 1-13

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852920

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Islets, Pancreatic

Pancreas

Spleen

**OBSERVATIONS**

Adrenal Gland

Cortex

Carcinoma

[ Carcinoma TGLS = 2-14 ]

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-13

Pituitary Gland

Pars Distalis

Cyst

Minimal

Pars Distalis

Hyperplasia

Minimal

Skin

Tail

Hemangiosarcoma

Note: HEMANGIOSARC TGLs = 3-15

Thyroid Gland

Follicular Cel

Hyperplasia

Mild

Uterus

Dilatation

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

<b>ANIMAL ID:</b> 182	<b>TRT#:</b> 8 <b>DOSE:</b> 1.0%	<b>SEX:</b> Female <b>DISP:</b> Dead	<b>DAY ON TEST:</b> 693 <b>HISTO:</b> A852921
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

---

**OBSERVATIONS**

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Ectasia	Minimal
		Hyperplasia	Minimal
Note: ECTASIA	TGLs = 3-7		
Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
Thyroid Gland	Bilateral, C Cell	Adenoma	

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland

Islets, Pancreatic

Uterus

OBSERVATIONS

Intestine Small

Ileum

Hyperplasia

Lymphoid, Minimal

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Hepatodiaphragmatic Nodule

Inflammation

Acute, Mild

Leukemia Mononuclear

[ Inflammation TGLS = 4-15 ]

Mammary Gland

Duct

Ectasia

Minimal

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-14

Note: ECTASIA TGLs = 3-7

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Cyst

Mild

Skin

Tail

Squamous Cell Papilloma

Note: PAPILOMA SQUA TGLs = 1-13

Spleen

Leukemia Mononuclear

Thyroid Gland

C Cell

Hyperplasia

Minimal

Tongue

Squamous Cell Papilloma

Note: PAPILOMA SQUA TGLs = 5-16

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852923

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Islets, Pancreatic

Spleen

Thyroid Gland

Uterus

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Multiple

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-13

Pancreas

Acinar Cell

Adenoma

Pituitary Gland

Pars Distalis

Ectasia

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852924

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic  
Uterus

Pancreas

Pituitary Gland

Spleen

**OBSERVATIONS**

Clitoral Gland

Inflammation

Chronic, Minimal

Intestine Small

Ileum

Hyperplasia

Lymphoid, Moderate

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-13

Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

<b>ANIMAL ID:</b> 186	<b>TRT#:</b> 8 <b>DOSE:</b> 1.0%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 729 <b>HISTO:</b> A852925
-----------------------	-------------------------------------	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland	Islets, Pancreatic	Thyroid Gland	Uterus
----------------	--------------------	---------------	--------

OBSERVATIONS

Eye Note: CATARACT TGLs = 1-16	Lens	Cataract	Mild
Intestine Small	Ileum	Hyperplasia Pigmentation	Lymphoid, Mild Mild
Kidney		Nephropathy	Moderate
Liver [ Leukemia Mononuclear TGLs = 8-2 ]		Leukemia Mononuclear	
Lymph Node Note: LEUKEMIA MONUC TGLs = 9-15	Renal	Leukemia Mononuclear	
Mesentery Note: LEUKEMIA MONUC TGLs = 4-13		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Pituitary Gland Note: CARCINOMA TGLs = 10-1	Pars Distalis	Carcinoma	
Spleen  Note: LEUKEMIA MONUC TGLs = 6-2 Note: INFARCT TGLs = 7-14		Infarct Leukemia Mononuclear	Mild

PRIMARY CAUSE OF DEATH	-
------------------------	---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 187	<b>TRT#:</b> 8 <b>DOSE:</b> 1.0%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 735 <b>HISTO:</b> A852926
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Islets, Pancreatic

Spleen

Uterus

**OBSERVATIONS**

Clitoral Gland

Hyperplasia

Marked

Note: HYPERPLASIA TGLs = 3-13

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Multiple

Pancreas

Atrophy

Focal, Moderate

Pituitary Gland

Pars Distalis

Cyst

Marked

Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Islets, Pancreatic

Pancreas

Spleen

OBSERVATIONS

Clitoral Gland

Duct

Dilatation

Moderate

Note: DILATATION TGLs = 3-8

Eye

Lens

Cataract

Marked

Note: CATARACT TGLs = 1-13

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Jejunum

Hyperplasia

Lymphoid, Mild

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Multiple

Clear Cell Focus

Bile Duct

Hyperplasia

Minimal

Hyperplasia

Mild

[ Clear Cell Focus TGLs = 4-15 ]

Lung

Alveolar/Bronchiolar Carcinoma

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-14

Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Distalis

Ectasia

Mild

Pars Distalis

Hyperplasia

Mild

Note: ECTASIA TGLs = 5-1

Thyroid Gland

C Cell

Hyperplasia

Marked

Uterus

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 189

TRT#: 8

SEX: Female

DAY ON TEST: 407

DOSE: 1.0%

DISP: Moribund

HISTO: A84032002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland  
Thyroid Gland

Islets, Pancreatic  
Uterus

Pancreas

Pituitary Gland

OBSERVATIONS

Brain  
Kidney  
Liver  
Skin

Glioma Nos  
Nephropathy  
Vacuolization Cytoplasmic  
Basal Cell Carcinoma

Minimal  
Moderate

Note: BASAL CEL CARC TGLs = 1-21+14

Spleen  
Stomach

Hematopoietic Cell Proliferation Erythrocytic  
Hyperplasia  
Necrosis

Mild  
Moderate  
Mild

Forestomach  
Glandular

Note: NECROSIS TGLs = 5-6

Note: HYPERPLASIA TGLs = 6-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852929

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Pancreas

Spleen

Thyroid Gland

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Moderate

Islets, Pancreatic

Hyperplasia

Moderate

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Bile Duct

Hyperplasia

Minimal

Pars Distalis

Pituitary Gland

Adenoma

Note: ADENOMA TGLs = 4-1

Skin

Tail

Squamous Cell Papilloma

Note: PAPILLOMA SQUA TGLs = 2-13

Uterus

Cervix

Cyst

Marked

Note: CYST TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 8

SEX: Female

DAY ON TEST: 651

DOSE: 1.0%

DISP: Moribund

HISTO: A852930

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Pancreas

Uterus

**OBSERVATIONS**

Bone

Osteopetrosis

Mild

[ Osteopetrosis TGLS = 6,8-9+10.1+15.1 ]

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Hyperplasia

Mild

Leukocytosis

Mild

Mammary Gland

Duct

Ectasia

Mild

Fibroadenoma

Note: FIBROADENOMA TGLs = 4,5-13+14

Note: ECTASIA TGLs = 3-7

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 7-1

Spleen

Hematopoietic Cell Proliferation Granulocytic

Mild

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852931

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

**OBSERVATIONS**

Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
	Bile Duct	Hyperplasia	Minimal
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 6-3.1			
Mammary Gland	Duct	Ectasia	Minimal
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 4,5-13+14			
Note: ECTASIA TGLs = 3-7+8			
Pituitary Gland	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Islets, Pancreatic

Pancreas

OBSERVATIONS

Clitoral Gland

Adenoma

Note: ADENOMA TGLs = 5-8

Intestine Small

Ileum

Hyperplasia

Lymphoid, Minimal

Jejunum

Pigmentation

Minimal

Kidney

Renal Tubule

Hyperplasia

Moderate

Inflammation

Chronic, Mild

Nephropathy

Moderate

[ Inflammation TGLS = 7-15 ]

Liver

Basophilic Focus

Multiple

Inflammation

Granulomatous, Mild

Mammary Gland

Fibroadenoma

Duct

Hyperplasia

Mild

Inflammation

Acute, Moderate

Note: HYPERPLASIA TGLs = 2-7

Note: FIBROADENOMA TGLs = 3-13

Note: INFLAMMATION TGLs = 4-14

Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Spleen

Hematopoietic Cell Proliferation Granulocytic

Minimal

Thyroid Gland

C Cell

Hyperplasia

Mild

Uterus

Cyst

Marked

Note: CYST TGLs = 6-6

Zymbal's Gland

Adenoma

Note: ADENOMA TGLs = 8-16

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 8

SEX: Female

DAY ON TEST: 592

DOSE: 1.0%

DISP: Dead

HISTO: A852933

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Thyroid Gland

Islets, Pancreatic

Pancreas

Spleen

**OBSERVATIONS**

Kidney

Nephropathy

Mild

Liver

Centrilobular

Necrosis

Moderate

Pituitary Gland

Pars Distalis

Carcinoma

Note: CARCINOMA TGLs = 4-1

Uterus

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 1-13

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 195	<b>TRT#:</b> 8	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 729
	<b>DOSE:</b> 1.0%	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> A852934

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Islets, Pancreatic

Pancreas

Thyroid Gland

**OBSERVATIONS**

Clitoral Gland

Hyperplasia

Marked

Note: HYPERPLASIA TGLs = 4-8

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 7-1

Skin

Subcut Tiss

Fibroma

Note: FIBROMA TGLs = 3-13

Spleen

Hematopoietic Cell Proliferation Granulocytic

Moderate

Urinary Bladder

Inflammation

Chronic Active, Marked

Metaplasia

Squamous, Moderate

Note: INFLAMMATION TGLs = 5-14

Uterus

Endometrium

Sarcoma Stromal

Note: SARC STROMAL TGLs = 6-14

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 196

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

OBSERVATIONS

Intestine Small	Ileum	Hyperplasia	Lymphoid, Minimal
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Inflammation	Granulomatous, Minimal
Mammary Gland		Carcinoma	
	Duct	Ectasia	Mild
Note: CARCINOMA	TGLs = 2,3-13+14		
Note: ECTASIA	TGLs = 4-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-1		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>ANIMAL ID:</b> 197	<b>TRT#:</b> 8 <b>DOSE:</b> 1.0%	<b>SEX:</b> Female <b>DISP:</b> Moribund	<b>DAY ON TEST:</b> 612 <b>HISTO:</b> A852936
-----------------------	-------------------------------------	---	--

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Thyroid Gland	Uterus		

**OBSERVATIONS**

Brain		Compression	Mild
[ Compression TGLS = 5-1 ]			
Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
		Inflammation	Granulomatous, Minimal
Note: [ HDN ] TGLs = 7-22			
Mammary Gland	Duct	Ectasia	Mild
Note: ECTASIA TGLs = 3-7			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-14			
Zymbal's Gland		Adenoma	
Note: ADENOMA TGLs = 6-13			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland

Islets, Pancreatic

Pancreas

Spleen

OBSERVATIONS

Adrenal Gland

Medulla

Pheochromocytoma Malignant

[ Pheochromocytoma Malignant TGLS = 6-15 ]

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Hepatodiaphragmatic Nodule

[ Basophilic Focus TGLS = 8-2 ]

Mammary Gland

Fibroadenoma

Hyperplasia

Mild

Note: FIBROADENOMA TGLs = 5-14

[ Fibroadenoma TGLS = 4-7 ]

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 7-1

Skin

Hyperkeratosis

Marked

Note: HYPERKERATOSIS TGLs = 3-13

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 8

SEX: Female

DAY ON TEST: 673

DOSE: 1.0%

DISP: Moribund

HISTO: A852938

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic

Pancreas

Spleen

Uterus

**OBSERVATIONS**

Clitoral Gland

Adenoma

Note: ADENOMA TGLs = 4-14

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Bile Duct

Hyperplasia

Minimal

Inflammation

Granulomatous, Minimal

Fibroadenoma

Mammary Gland

Note: FIBROADENOMA TGLs = 3-13+7

Pituitary Gland

Pars Distalis

Cyst

Minimal

Pars Distalis

Hyperplasia

Minimal

Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 8

SEX: Female

DAY ON TEST: 242

DOSE: 1.0%

DISP: Moribund

HISTO: A83029731

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Thyroid Gland

Islets, Pancreatic  
Uterus

Pancreas

Pituitary Gland

**OBSERVATIONS**

Intestine Small  
Liver

Ileum

Hyperplasia  
Leukemia Mononuclear

Lymphoid, Mild

[ Leukemia Mononuclear TGLS = 4-5 ]

Lung

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 5-4 ]

Spleen

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 3-2 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 201

TRT#: 8

SEX: Female

DAY ON TEST: 727

DOSE: 1.0%

DISP: Moribund

HISTO: A852940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland

Pituitary Gland

Uterus

OBSERVATIONS

Bone

Osteopetrosis

Minimal

[ Osteopetrosis TGLS = 11-13+13.1+9 ]

Islets, Pancreatic

Atrophy

Marked

Kidney

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-14

Liver

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8-2

Lung

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 9,10-3

Lymph Node

Mesenteric

Leukemia Mononuclear

Pancreatic

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4,6-4

Ovary

Follicle

Cyst

Marked

Note: CYST TGLs = 3-6

Pancreas

Leukemia Mononuclear

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-2

Thyroid Gland

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852941

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Islets, Pancreatic

Pancreas

Uterus

**OBSERVATIONS**

Bone Marrow

Hypoplasia

Moderate

[ Hypoplasia TGLS = 7-9 ]

Intestine Small

Jejunum

Hyperplasia

Lymphoid, Minimal

Liver

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 5-2 ]

Mammary Gland

Duct

Ectasia

Minimal

[ Ectasia TGLS = 3-7 ]

Pituitary Gland

Pars Distalis

Cyst

Moderate

Pars Distalis

Hyperplasia

Minimal

Note: CYST TGLs = 6-1

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-2

Thyroid Gland

Follicular Cel

Adenoma

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852942

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic

Pancreas

Spleen

Uterus

**INSUFFICIENT TISSUE**

Clitoral Gland

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Multiple

Inflammation

Granulomatous, Minimal

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 2,3-13+14

Pituitary Gland

Pars Distalis

Adenoma

Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 204	TRT#: 8 DOSE: 1.0%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: A852943
----------------	-----------------------	---	------------------------------------

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

NORMAL

Islets, Pancreatic	Pancreas	Spleen	Uterus
--------------------	----------	--------	--------

---

OBSERVATIONS

Clitoral Gland Note: ADENOMA TGLs = 4-8		Adenoma	
Kidney [ Nephropathy TGLS = 5-5 ]		Nephropathy	Moderate
Liver		Basophilic Focus Inflammation Fibroadenoma	Multiple Granulomatous, Mild
Mammary Gland Note: FIBROADENOMA TGLs = 2,3-13+14			
Pituitary Gland Note: ADENOMA TGLs = 6-1	Pars Distalis	Adenoma	
Thyroid Gland	Follicular Cel	Hyperplasia	Cystic, Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 8

SEX: Female

DAY ON TEST: 703

DOSE: 1.0%

DISP: Dead

HISTO: A852944

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Islets, Pancreatic

Thyroid Gland

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

Liver

Leukemia Mononuclear

[ Leukemia Mononuclear TGLS = 7-2 ]

Mammary Gland

Fibroadenoma

[ Fibroadenoma TGLS = 4-13 ]

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Distalis

Ectasia

Mild

Pars Distalis

Hyperplasia

Mild

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-2

Uterus

Hemorrhage

Moderate

Cervix

Sarcoma Stromal

Note: SARC STROMAL TGLs = 5-14

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 206

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 673

**DOSE:** 1.0%

**DISP:** Moribund

**HISTO:** A852945

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Thyroid Gland

Islets, Pancreatic  
Uterus

Pancreas

Spleen

**OBSERVATIONS**

Brain

Compression

Moderate

[ Compression TGLS = 5-1 ]

Kidney

Nephropathy

Moderate

Liver

Basophilic Focus

Multiple

Hepatodiaphragmatic Nodule

Inflammation

Granulomatous, Mild

[ Inflammation TGLS = 3-13 ]

Mammary Gland

Duct

Ectasia

Mild

Note: ECTASIA TGLs = 6-7

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 4-14

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

**ANIMAL ID:** 207

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852946

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Uterus

Islets, Pancreatic

Liver

Spleen

**OBSERVATIONS**

Kidney

[ Nephropathy TGLS = 4-5 ]

Nephropathy

Marked

Mammary Gland

[ Ectasia TGLS = 2-7 ]

Duct

Ectasia

Mild

Ovary

Note: THECOMA NOS TGLs = 3-6

Thecoma Nos

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Note: ADENOMA TGLs = 5-1

Pars Distalis

Adenoma

Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 208

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852947

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Islets, Pancreatic

Spleen

Uterus

**OBSERVATIONS**

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Bile Duct

Hyperplasia

Minimal

Mammary Gland

Duct

Ectasia

Mild

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-14

Note: ECTASIA TGLs = 2-7

Pancreas

Atrophy

Focal, Mild

Pituitary Gland

Pars Distalis

Cyst

Mild

Skin

Acanthosis

Moderate

Hyperkeratosis

Marked

Note: HYPERKERATOSIS TGLs = 4-13

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 209

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Islets, Pancreatic

Pancreas

Spleen

Uterus

OBSERVATIONS

Bone

Osteopetrosis

Moderate

[ Osteopetrosis TGLS = 6-9+10 ]

Clitoral Gland

Inflammation

Chronic, Minimal

Kidney

Nephropathy

Moderate

[ Nephropathy TGLS = 4-5 ]

Liver

Basophilic Focus

Multiple

Mammary Gland

Duct

Ectasia

Moderate

Note: ECTASIA TGLs = 1-7

Mesentery

Fat

Necrosis

Focal, Mild

Note: NECROSIS TGLs = 3-13

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 5-1

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 210	TRT#: 8 DOSE: 1.0%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: A852949
----------------	-----------------------	---	------------------------------------

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
<b>OBSERVATIONS</b>			
Intestine Small	Ileum	Hyperplasia	Lymphoid, Mild
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
Mammary Gland		Hyperplasia	Marked
Note: HYPERPLASIA TGLs = 2-7			
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-1			
Thyroid Gland	Follicle	Dilatation	Minimal
	C Cell	Hyperplasia	Minimal
Uterus		Cyst	Moderate
Note: CYST TGLs = 3-13			

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852950

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Uterus

Islets, Pancreatic

Pancreas

Spleen

**OBSERVATIONS**

Kidney  
Liver

Nephropathy  
Basophilic Focus  
Inflammation

Mild  
Multiple  
Granulomatous, Mild

Pituitary Gland  
Note: ECTASIA      TGLs = 2-1

Pars Distalis

Ectasia

Marked

Thyroid Gland

C Cell  
C Cell

Adenoma  
Hyperplasia

Marked

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852951

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic

Pancreas

Spleen

Uterus

**OBSERVATIONS**

Clitoral Gland

Adenoma

Note: ADENOMA

TGLs = 2,3-13

Intestine Small

Ileum

Hyperplasia

Lymphoid, Mild

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Multiple

Inflammation

Granulomatous, Mild

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA

TGLs = 4,5-14+15

Pituitary Gland

Pars Distalis

Cyst

Moderate

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 213

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852952

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Uterus

Islets, Pancreatic

Pancreas

Spleen

**OBSERVATIONS**

Intestine Small  
Kidney  
Liver

Ileum

Hyperplasia  
Nephropathy  
Basophilic Focus

Lymphoid, Mild  
Mild  
Multiple

Bile Duct

Hyperplasia  
Fibroadenoma

Minimal

Mammary Gland

Note: FIBROADENOMA TGLs = 1-13

Pituitary Gland

Note: ADENOMA TGLs = 2-1

Pars Distalis

Adenoma

Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 214

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 1.0%

**DISP:** Terminal Sacrifice

**HISTO:** A852953

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland

Islets, Pancreatic

Spleen

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

Liver

Inflammation

Granulomatous, Moderate

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 2-13

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Hypertrophy

Moderate

Thyroid Gland

C Cell

Hyperplasia

Minimal

Uterus

Dilatation

Moderate

Note: DILATATION TGLs = 3-6

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 215

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Thyroid Gland			

OBSERVATIONS

Bone		Osteopetrosis	Mild
[ Osteopetrosis TGLS = 5-15+9+10 ]			
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
[ Basophilic Focus TGLS = 4-14 ]			
[ Hepatodiaphragmatic Nodule TGLS = 6-16 ]			
Mammary Gland	Duct	Ectasia	Moderate
Note: ECTASIA	TGLs = 2-7		
Pituitary Gland	Pars Distalis	Cyst	Minimal
Uterus		Dilatation	Moderate
Note: DILATATION	TGLs = 3-13		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

---

ANIMAL ID: 216	TRT#: 8 DOSE: 1.0%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: A852955
----------------	-----------------------	---	------------------------------------

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

---

**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Ectasia Fibroadenoma	Mild
Note: FIBROADENOMA TGLs = 3-13 [ Fibroadenoma TGLS = 2-8+8.1 ]			
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Mild
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 217

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852956

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Uterus

Islets, Pancreatic

Spleen

Thyroid Gland

**OBSERVATIONS**

Intestine Small  
Kidney  
Liver

Jejunum

Hyperplasia  
Nephropathy  
Basophilic Focus  
Fibroadenoma

Lymphoid, Minimal  
Mild  
Multiple

Mammary Gland

Note: FIBROADENOMA TGLs = 2-13

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 218

TRT#: 8

SEX: Female

DAY ON TEST: 645

DOSE: 1.0%

DISP: Dead

HISTO: A852957

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Islets, Pancreatic

Pancreas

Thyroid Gland

Uterus

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

Liver

Basophilic Focus

Multiple

Ovary

Vacuolization Cytoplasmic

Mild

Granulosa Cell Tumor Nos

Note: GRANLSA TM NOS TGLs = 3-6

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Ectasia

Moderate

Note: ECTASIA TGLs = 7-1

Spleen

Hemorrhage

Focal, Moderate

Note: HEMORRHAGE TGLs = 6-13

Urinary Bladder

Hyperplasia

Marked

Mineralization

Mild

Papilloma

Note: MINERALIZATION TGLs = 4,5-14

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 219	<b>TRT#:</b> 8 <b>DOSE:</b> 1.0%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 736 <b>HISTO:</b> A852958
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Pancreas	Spleen	Thyroid Gland
<b>OBSERVATIONS</b>			
Intestine Small Islets, Pancreatic Note: [ ADENOMA ] TGLs = 4-13	Ileum	Hyperplasia Adenoma	Lymphoid, Mild
Liver Mammary Gland Note: ECTASIA TGLs = 2-7	Duct	Inflammation Ectasia	Granulomatous, Mild Mild
Pituitary Gland Note: ADENOMA TGLs = 5-1	Pars Distalis	Adenoma	
Uterus Note: CYST TGLs = 3-6	Cervix	Cyst	Marked

---

PRIMARY CAUSE OF DEATH

---

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03

**Test Type:** CHRONIC

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** C.I. Pigment red 23

**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 14:12:20

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

**Lab:** SRI

---

**ANIMAL ID:** 220

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 697

**DOSE:** 1.0%

**DISP:** Dead

**HISTO:** A852959

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland

Islets, Pancreatic

Pancreas

Pituitary Gland

Spleen

Thyroid Gland

Uterus

---

**OBSERVATIONS**

Intestine Small

Ileum

Hyperplasia

Lymphoid, Minimal

Liver

Basophilic Focus

Multiple

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 3-13

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05021-03  
**Test Type:** CHRONIC  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** C.I. Pigment red 23  
**CAS Number:** 6471-49-4

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 14:12:20  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

<b>ANIMAL ID:</b> 221	<b>TRT#:</b> 8 <b>DOSE:</b> 1.0%	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 736 <b>HISTO:</b> A852960
-----------------------	-------------------------------------	---	--

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

---

**OBSERVATIONS**

Kidney		Nephropathy	Moderate
Liver		Basophilic Focus	Multiple
Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1,2-13+14		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 3-1		
Thyroid Gland	C Cell	Hyperplasia	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852961

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland	Islets, Pancreatic	Pancreas	Spleen
Uterus			

**OBSERVATIONS**

Intestine Small	Ileum	Inflammation	Moderate
Kidney		Nephropathy	Mild
Liver		Basophilic Focus	Multiple
		Clear Cell Focus	
		Hyperplasia	Minimal
[ Hyperplasia TGLS = 6-15 ]			
Mammary Gland	Duct	Ectasia	Moderate
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2,3-13+14		
Note: ECTASIA	TGLs = 4-7		
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-1		
Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland  
Uterus

Islets, Pancreatic

Pancreas

Spleen

OBSERVATIONS

Kidney  
Liver

Nephropathy  
Basophilic Focus  
Clear Cell Focus  
Hepatodiaphragmatic Nodule

Mild  
Multiple

[ Basophilic Focus TGLS = 6-16 ]

Mammary Gland

Duct

Adenoma  
Ectasia  
Fibroadenoma

Mild

Note: ADENOMA TGLs = 2-13

Note: ECTASIA TGLs = 1-7

[ Ectasia TGLS = 3,4-14+15 ]

Pituitary Gland

Pars Distalis  
Pars Distalis

Adenoma  
Cyst

Mild

Note: ADENOMA TGLs = 5-1

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
Test Type: CHRONIC  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: C.I. Pigment red 23  
CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
Time Report Requested: 14:12:20  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 224

TRT#: 8

SEX: Female

DAY ON TEST: 673

DOSE: 1.0%

DISP: Moribund

HISTO: A852963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland  
Thyroid Gland

Islets, Pancreatic  
Uterus

Pancreas

Spleen

OBSERVATIONS

Brain  
[ Compression TGLS = 6-1 ]

Compression

Mild

Kidney  
Liver

Nephropathy  
Basophilic Focus  
Inflammation

Moderate  
Multiple  
Granulomatous, Minimal

Mammary Gland

Duct

Ectasia  
Hyperplasia

Mild  
Minimal

Note: ECTASIA TGLs = 4-7

Pituitary Gland

Pars Distalis

Adenoma

Note: ADENOMA TGLs = 5-1

Skin

Acanthosis

Mild

Note: ACANTHOSIS TGLs = 3-13

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 8

SEX: Female

DAY ON TEST: 686

DOSE: 1.0%

DISP: Moribund

HISTO: A852964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Islets, Pancreatic

Pancreas

Spleen

OBSERVATIONS

Bone

Osteopetrosis

Mild

[ Osteopetrosis TGLS = 7-14+10 ]

Clitoral Gland

Hyperplasia

Moderate

Inflammation

Acute, Moderate

Note: INFLAMMATION TGLs = 4-13

Kidney

Renal Tubule

Hyperplasia

Moderate

Nephropathy

Marked

[ Nephropathy TGLS = 5-5+15+15.1 ]

Liver

Vacuolization Cytoplasmic

Moderate

Mammary Gland

Duct

Ectasia

Mild

Note: ECTASIA TGLs = 3-7

Parathyroid Gland

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 6-3

Pituitary Gland

Pars Distalis

Cyst

Mild

Pars Distalis

Ectasia

Mild

Pars Distalis

Hyperplasia

Mild

Stomach

Forestomach

Ulcer

Marked

Note: ULCER TGLs = 8-4+4.1

Thyroid Gland

C Cell

Hyperplasia

Marked

Uterus

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03  
 Test Type: CHRONIC  
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 Test Compound: C.I. Pigment red 23  
 CAS Number: 6471-49-4

Date Report Requested: 10/20/2014  
 Time Report Requested: 14:12:20  
 First Dose M/F: NA / NA  
 Lab: SRI

ANIMAL ID: 226	TRT#: 8 DOSE: 1.0%	SEX: Female DISP: Moribund	DAY ON TEST: 514 HISTO: A852965
----------------	-----------------------	-------------------------------	------------------------------------

**ORGAN AND ACCOUNTABLE SITE STATUS**

NORMAL			
Islets, Pancreatic	Pancreas	Uterus	
<b>OBSERVATIONS</b>			
Clitoral Gland		Inflammation	Chronic, Minimal
Liver		Hepatodiaphragmatic Nodule	
		Leukocytosis	Mild
Note: ANOM HEPAT LOB TGLs = 7-14			
Mammary Gland		Carcinoma	
	Duct	Ectasia	Mild
Note: ECTASIA TGLs = 3-7			
Note: CARCINOMA TGLs = 4-13			
Ovary		Thecoma Nos	
Note: THECOMA NOS TGLs = 5-6			
Pituitary Gland	Pars Distalis	Cyst	Minimal
Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 6-2			
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Clitoral Gland Uterus

OBSERVATIONS

Intestine Small Ileum Hyperplasia Lymphoid, Mild

Jejunum Hyperplasia Lymphoid, Mild

Islets, Pancreatic Adenoma

Kidney Nephropathy Minimal

Liver Hepatodiaphragmatic Nodule

Leukemia Mononuclear

Note: ANOM HEPAT LOB TGLs = 4-13

[ Hepatodiaphragmatic Nodule TGLS = 3-2 ]

Mammary Gland Adenoma

Duct Ectasia Mild

Note: ECTASIA TGLs = 2-7

[ Ectasia TGLS = 2-8.1 ]

Pancreas Atrophy Focal, Minimal

Pituitary Gland Pars Distalis Hyperplasia Mild

Spleen Leukemia Mononuclear

Thyroid Gland C Cell Hyperplasia Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852967

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Uterus

Islets, Pancreatic

Liver

Spleen

**OBSERVATIONS**

Intestine Small

Jejunum

Hyperplasia

Lymphoid, Minimal

Kidney

Nephropathy

Mild

Mammary Gland

Fibroadenoma

Note: FIBROADENOMA TGLs = 1-13+7

Pancreas

Acinar Cell

Adenoma

Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Ectasia

Mild

Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 8

SEX: Female

DAY ON TEST: 673

DOSE: 1.0%

DISP: Moribund

HISTO: A852968

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Clitoral Gland  
Thyroid Gland

Islets, Pancreatic  
Uterus

Pancreas

Spleen

**OBSERVATIONS**

Brain  
Kidney  
Liver

Astrocytoma Nos  
Nephropathy  
Inflammation  
Vacuolization Cytoplasmic  
Adenoma

Moderate  
Granulomatous, Mild  
Moderate

Pituitary Gland

Pars Distalis

Note: ADENOMA TGLs = 3-1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05021-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: C.I. Pigment red 23

CAS Number: 6471-49-4

Date Report Requested: 10/20/2014

Time Report Requested: 14:12:20

First Dose M/F: NA / NA

Lab: SRI

---

ANIMAL ID: 230

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 1.0%

DISP: Terminal Sacrifice

HISTO: A852969

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Clitoral Gland

Islets, Pancreatic

Pancreas

Spleen

Uterus

---

**OBSERVATIONS**

Kidney

Nephropathy

Mild

Liver

Basophilic Focus

Multiple

Pituitary Gland

Pars Distalis

Ectasia

Marked

Thyroid Gland

C Cell

Adenoma

---

PRIMARY CAUSE OF DEATH

-

---

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