

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

C Number:	C56508
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	11/26/1986

Experiment Number: 05058-01

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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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 Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Mammary Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver		Developmental Malformation	
Note: DEVELOP MALFOR			TGLs = 2
Nose	Nasolacrim Dct	Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Preputial Gland		Adenoma	
	Duct	Cyst	
		Inflammation	Suppurative, Acute, Mild
Note: ADENOMA			TGLs = 1
Note: INFLAMMATION			TGLs = 1
Note: CYST			TGLs = 1
Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA			TGLs = 3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Ear	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Pancreas	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Intestine Large - Rectum

OBSERVATIONS

Brain	Cerebellum	Granular Cell Tumor Nos	
Eye	Retina	Cataract Degeneration	Mild Moderate
[Cataract TGLS = 1] [Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Moderate
Kidney	Renal Tubule	Adenoma Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Clear Cell Focus Proliferation	Moderate
[Clear Cell Focus TGLS = 5] [Proliferation TGLS = 5]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2]			
Nose	Nasolacrim Dct Nasolacrim Dct	Foreign Body Inflammation	Mild Suppurative, Acute, Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 3]			
Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Natural Death	DAY ON TEST: 495 HISTO:
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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
Lymph Node - Mesenteric	Nose	Pancreas	Peripheral Nerve
Preputial Gland	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Granuloma	Multifocal, Mild
	Biliar Tract	Proliferation	Mild
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
[Adenoma TGLS = 1]			
[Angiectasis TGLS = 1]			
Prostate		Inflammation	Suppurative, Acute, Moderate
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: UNTREATD CONTROL	DISP: Terminal Sacrifice	HISTO:

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 - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Intestine Small - Duodenum

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Proliferation	Minimal
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pancreas		Atrophy	Focal, Mild
Prostate		Inflammation	Suppurative, Acute, Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild

Note: ATROPHY TGLs = 2

Note: ADENOMA TGLs = 1

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Eye	Retina	Degeneration	Marked
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Moderate
Lung		Foreign Body	Mild
		Granuloma	Multifocal, Mild
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2]			
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Ear	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	Peripheral Nerve
Pituitary Gland	Prostate	Salivary Glands	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Eye	Retina	Cataract	Marked
		Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Marked
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6]			
Pancreas		Atrophy	Focal, Minimal
Preputial Gland		Carcinoma	
[Carcinoma TGLS = 2]			
Skin		Inflammation	Granulomatous, Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 2	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: SKIN: INFLAMMATION ON FACE

Spleen	[Leukemia Mononuclear TGLS = 5]	Leukemia Mononuclear
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Testes	Interstit Cell	Adenoma	Multiple
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[Adenoma TGLS = 4]

[Atrophy TGLS = 3]

Atrophy	Mild
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: UNTREATD CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Ear	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
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Eye	Retina	Degeneration	Moderate
[Degeneration TGLS = 3]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
	Biliar Tract	Proliferation	Mild
Pancreas		Atrophy	Focal, Minimal
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1,2]			
Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 728 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lymph Node - Mesenteric	Mammary Gland	Nose
Peripheral Nerve	Pituitary Gland	Preputial Gland	Salivary Glands
Spinal Cord	Spleen	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland [Pheochromocytoma Benign TGLS = 3]	Medulla	Pheochromocytoma Benign	Multiple
Blood Vessel	Aorta	Mineralization	Diffuse, Marked
Bone		Fibrous Osteodystrophy	Marked
Eye [Cataract TGLS = 1] [Degeneration TGLS = 1]	Retina	Cataract Degeneration	Moderate Moderate
Heart [Mineralization TGLS = 8] [Thrombosis TGLS = 8]	Atrium	Cardiomyopathy Mineralization Thrombosis	Moderate Multifocal, Marked Marked
Kidney [Nephropathy TGLS = 4]		Nephropathy	Chronic, Marked
Liver	Biliar Tract	Proliferation	Mild
Lung		Mineralization	Multifocal, Mild
Pancreas [Adenoma TGLS = 6]		Adenoma	
Parathyroid Gland [Hyperplasia TGLS = 7]		Hyperplasia	Marked
Prostate		Inflammation	Suppurative, Acute, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 3	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 728 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Skin		Foreign Body Inflammation	Mild Suppurative, Acute, Focal, Moderate
Note: SKIN- INFLAMMATION ON SKIN OF FACE			
Stomach	Forestomach Glandular	Mineralization Mineralization	Diffuse, Moderate Diffuse, Moderate
Testes [Adenoma TGLS = 2]	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 633 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Pancreas	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
	[Leukemia Mononuclear TGLS = 6]		
	[Necrosis TGLS = 6]		
	[Proliferation TGLS = 6]		
Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
	[Alveolar/Bronchiolar Adenoma TGLS = 7]		
Lymph Node	Mesenteric	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5]		
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3

TRT#: 5

SEX: Male

DAY ON TEST: 633

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lung
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Large - Rectum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Moderate
Heart		Cardiomyopathy	Minimal
Islets, Pancreatic		Carcinoma	
Note: CARCINOMA	TGLs = 4		
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 5]			
Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Developmental Malformation	
[Developmental Malformation TGLS = 01]			
Lymph Node	Mandibular	Ectasia	Mild
Pancreas		Atrophy	Focal, Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
	Tunic	Mesothelioma Malignant	
[Adenoma TGLS = 3]			
[Atrophy TGLS = 2]			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 3

SEX: Male

DAY ON TEST: 630

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	Epididymis	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	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Prostate	Salivary Glands
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 7]			
Liver	Biliar Tract	Proliferation	Mild
Lymph Node	Inguinal	Hyperplasia	Moderate
	Mandibular	Hyperplasia	Moderate
[Hyperplasia TGLS = 3]			
[Hyperplasia TGLS = 5]			
Nose		Inflammation	Suppurative, Acute, Marked
Preputial Gland		Adenoma	
		Inflammation	Suppurative, Acute, Moderate
Note: ADENOMA TGLs = 4			
[Inflammation TGLS = 4]			
Skin	Subcut Tiss	Fibrosarcoma	
		Inflammation	Suppurative, Acute, Multifocal, Moderate
Note: INFLAMMATION ON SKIN OF LIP			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 630 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosarcoma TGLS = 2]			
[Inflammation TGLS = 8,9]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 6]			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Eye	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Peripheral Nerve
Prostate	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Marked
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pancreas		Adenoma	
		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 3]			
[Angiectasis TGLS = 3]			
Preputial Gland		Inflammation	Suppurative, Acute, Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: UNTREATD CONTROL	DISP: Terminal Sacrifice	HISTO:

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 - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Small - Duodenum

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver	Biliar Tract	Proliferation	Mild
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pancreas		Atrophy	Focal, Moderate
Prostate		Inflammation	Suppurative, Acute, Mild
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate

Note: ATROPHY TGLs = 2

Note: ADENOMA TGLs = 1

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Ear
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	Lymph Node - Mesenteric
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Degeneration Pheochromocytoma Benign	Fatty, Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Biliar Tract	Basophilic Focus Proliferation Fibroadenoma	Mild
Mammary Gland [Fibroadenoma TGLS = 1]		Inflammation	Suppurative, Acute, Marked
Nose	Respirat Epith	Metaplasia	Squamous, Marked
Pancreas		Atrophy	Focal, Mild
Testes [Adenoma TGLS = 2]	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 633 HISTO:
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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 - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Degeneration Pheochromocytoma Benign	Fatty, Focal, Mild
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 6]			
Liver	Centrilobular Biliar Tract	Leukemia Mononuclear Necrosis Proliferation Vacuolization Cytoplasmic	Mild Marked Focal, Mild
Note: LEUKEMIA MONUC TGLs = 8			
Note: NECROSIS TGLs = 8			
[Leukemia Mononuclear TGLS = 8]			
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial Mandibular	Leukemia Mononuclear Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear Atrophy	Focal, Moderate
[Atrophy TGLS = 5]			
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 3]			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 633 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 9 Testes [Adenoma TGLS = 4]	Interstit Cell	Adenoma	Multiple
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PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Mineralization	Multifocal, Moderate
	Medulla	Pheochromocytoma Malignant	
[Mineralization TGLS = 2]			
[Pheochromocytoma Malignant TGLS = 2]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY			
TGLs = 3			
Liver		Clear Cell Focus	
	Biliar Tract	Proliferation	Minimal
Pancreas		Atrophy	Focal, Minimal
Preputial Gland		Inflammation	Chronic, Mild
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6

TRT#: 3

SEX: Male

DAY ON TEST: 595

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Preputial Gland
Salivary Glands	Spinal Cord	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY TGLs = 4			
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
[Leukemia Mononuclear TGLS = 6]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9			
Lymph Node	Iliac	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8			
Note: LEUKEMIA MONUC TGLs = 10			
[Leukemia Mononuclear TGLS = 11]			
Prostate		Inflammation	Suppurative, Acute, Moderate
Skin		Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 595 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROMA	TGLs = 1		
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5]			
Stomach	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Hyperplasia	Marked
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
[Adenoma TGLS = 3]			
[Atrophy TGLS = 2]			

PRIMARY CAUSE OF DEATH	-
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Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 722 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Pancreas
Parathyroid Gland	Peripheral Nerve	Preputial Gland	Prostate
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
[Leukemia Mononuclear TGLS = 7]			
[Leukemia Mononuclear TGLS = 7]			
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 8,9			
Liver		Angiectasis	Focal, Marked
		Degeneration	Cystic, Marked
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
Note: ANGIECTASIS TGLs = 13			
Note: LEUKEMIA MONUC TGLs = 11,12			
[Leukemia Mononuclear TGLS = 11,12]			
[Necrosis TGLS = 11,12]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 6	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 722 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 3]			
Nose	Nasolacrim Dct	Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Moderate
Note: HYPERPLASIA TGLs = 14			
[Hyperplasia TGLS = 14]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6]			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
[Adenoma TGLS = 4]			
[Atrophy TGLS = 5]			

PRIMARY CAUSE OF DEATH	-
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Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Seminal Vesicle	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Degeneration Pheochromocytoma Benign	Fatty, Focal, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 4]			
Liver		Basophilic Focus Granuloma Proliferation	Multiple Multifocal, Mild Minimal
	Biliar Tract	Alveolar/Bronchiolar Adenoma	
Lung		Atrophy	Focal, Mild
Pancreas		Keratoacanthoma	
Skin			
[Keratoacanthoma TGLS = 1]			
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7

TRT#: 3

SEX: Male

DAY ON TEST: 651

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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
Liver	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Preputial Gland
Salivary Glands	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Eye	Retina	Cataract	Marked
		Degeneration	Marked
Heart		Cardiomyopathy	Moderate
Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 7			
Kidney	Renal Tubule	Pigmentation	Multifocal, Moderate
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
Lymph Node	Mediastinal	Pigmentation	Moderate
Mesentery		Mesothelioma Malignant	
Note: MESOTHELIO MAL TGLs = 6,8,9			
Note: MESOTHELIOMA ATTACHED TO SEROSA OF MANY VISCERAL ORGANS			
Nose		Foreign Body	Mild
Pancreas		Atrophy	Focal, Minimal
Prostate		Inflammation	Suppurative, Acute, Mild
Skin		Keratoacanthoma	
Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 7	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 651 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
[Adenoma TGLS = 4]			
[Atrophy TGLS = 5]			

PRIMARY CAUSE OF DEATH	-		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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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 - Mesenteric	Nose	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Moderate
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 8]			
Liver		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
[Leukemia Mononuclear TGLS = 10]			
[Necrosis TGLS = 10]			
[Proliferation TGLS = 10]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2]			
Pancreas		Atrophy	Focal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 11]			
[Angiectasis TGLS = 11]			
Preputial Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 7	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
	Duct	Cyst	
	[Adenoma TGLS = 3] [Cyst TGLS = 3]		
Prostate		Inflammation	Suppurative, Acute, Moderate
Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1]		
Spleen		Fibrosis Leukemia Mononuclear	Focal, Marked
	[Fibrosis TGLS = 6] [Leukemia Mononuclear TGLS = 7]		
Testes	Interstit Cell	Adenoma	Multiple
	[Adenoma TGLS = 5]		

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 1	SEX: Male	DAY ON TEST: 693
	DOSE: UNTREATD CONTROL	DISP: Moribund Sacrifice	HISTO:

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	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Salivary Glands	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 2]			
Heart		Cardiomyopathy	Moderate
Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 6		
Liver		Developmental Malformation	
		Leukemia Mononuclear	
		Necrosis	Multifocal, Mild
	Biliar Tract	Proliferation	Mild
Note: DEVELOP MALFOR	TGLs = 3		
[Developmental Malformation TGLS = 7,8,9]			
Nose		Foreign Body	Mild
Pancreas		Basophilic Focus	
Prostate		Inflammation	Suppurative, Acute, Mild
Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1]			
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ATROPHY	TGLs = 5		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 693

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 686 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Pancreas	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Eye	Retina	Cataract	Marked
		Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 4]			
Liver	Centrilobular	Leukemia Mononuclear	Minimal
	Biliar Tract	Necrosis	Marked
		Proliferation	
[Leukemia Mononuclear TGLS = 6]			
[Proliferation TGLS = 6]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8

TRT#: 3

SEX: Male

DAY ON TEST: 686

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3]

Testes

Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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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	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Basophilic Focus Proliferation	Multiple Moderate
[Basophilic Focus TGLS = 5] [Proliferation TGLS = 5]			
Pancreas		Atrophy	Focal, Moderate
Testes	Interstit Cell	Adenoma Atrophy	Multiple Mild
[Adenoma TGLS = 1] [Atrophy TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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 - Mesenteric	Nose	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY	TGLs = 2		
Liver		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Mild
Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN	TGLs = 4		
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Pancreas		Hyperplasia	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 5		
	[Adenoma TGLS = 5]		
Preputial Gland		Inflammation	Chronic, Mild
Prostate		Inflammation	Suppurative, Acute, Mild
Skin		Inflammation	Chronic, Focal, Mild
Note: SKIN LESION ON FACE			
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Ear	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
Lymph Node - Mesenteric	Nose	Pancreas	Peripheral Nerve
Preputial Gland	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Eye	Retina	Cataract	Marked
		Degeneration	Marked
			[Cataract TGLS = 1]
			[Degeneration TGLS = 1]
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY			TGLs = 4
Liver		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS			TGLs = 5
Note: ADENOMA			TGLs = 5
Prostate		Inflammation	Suppurative, Acute, Mild
Spleen		Hyperplasia	Focal, Marked
		Leukemia Mononuclear	
			[Hyperplasia TGLS = 2,3]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 710 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Bone		Hypertrophy	Focal, Mild
[Hypertrophy TGLS = 11]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 7]			
Liver	Centrilobular	Necrosis	Mild
Lymph Node	Mediastinal	Pigmentation	Mild
[Pigmentation TGLS = 10]			
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 5,6,8]			
Spleen		Hematopoietic Cell Proliferation	Marked
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 4]			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Small - Jejunum
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Islets, Pancreatic
Parathyroid Gland
Skin
Thymus

Bone Marrow
Intestine Large - Colon
Lung
Peripheral Nerve
Spinal Cord
Thyroid Gland

Brain
Intestine Small - Ileum
Lymph Node - Mesenteric
Prostate
Stomach - Forestomach
Trachea

MISSING

Intestine Large - Cecum

Intestine Large - Rectum

Intestine Small - Duodenum

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Medulla

Pheochromocytoma Benign
Cardiomyopathy
Nephropathy
Angiectasis
Basophilic Focus
Leukemia Mononuclear

Moderate
Chronic, Moderate
Focal, Mild

Lymph Node
Mammary Gland

Biliar Tract
Mandibular

Proliferation
Ectasia
Fibroadenoma

Moderate
Mild

Nose
Pituitary Gland

Mucosa
Pars Distalis
Pars Distalis

Cyst
Adenoma
Angiectasis
Inflammation
Leukemia Mononuclear

Moderate
Suppurative, Acute, Mild

Preputial Gland
Spleen
Testes

Interstit Cell

Adenoma
Atrophy

Multiple
Mild

Note: ATROPHY TGLs = 3

[Atrophy TGLS = 4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Peripheral Nerve
Preputial Gland	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Testes	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Brain	Ear	Nose	Parathyroid Gland
Pituitary Gland			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Eye	Retina	Cataract	Mild
		Degeneration	Marked
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Granuloma	Multifocal, Mild
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Marked
Note: LEUKEMIA MONUC TGLs = 7			
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Minimal
Prostate		Inflammation	Suppurative, Acute, Marked
Spleen		Hyperplasia	Focal, Marked
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 5
[Leukemia Mononuclear TGLS = 6]

Stomach Artery
Tongue

Inflammation
Hyperkeratosis

Chronic, Mild
Focal, Moderate

Note: HYPERKERATOSIS TGLs = 11

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Stomach - Glandular	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Bone Marrow		Hypoplasia	Moderate
Heart	Atrium	Cardiomyopathy	Mild
		Thrombosis	Marked
[Thrombosis TGLS = 13]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 6,7			
[Cyst TGLS = 5]			
Liver	Biliar Tract	Leukemia Mononuclear Proliferation	Marked
		Vacuolization Cytoplasmic	Focal, Mild
		Infiltration Cellular	Histiocyte, Multifocal, Mild
[Infiltration Cellular TGLS = 12]			
Lymph Node	Pancreatic Mediastinal	Ectasia	Moderate
		Leukemia Mononuclear	
[Ectasia TGLS = 4]			
[Leukemia Mononuclear TGLS = 14]			
Parathyroid Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 16]			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Chronic, Marked
[Inflammation TGLS = 1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 10	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 728 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Prostate		Leukemia Mononuclear	
Seminal Vesicle		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3]			
Stomach	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Hyperplasia	Marked
	Forestomach	Squamous Cell Carcinoma	
	Forestomach	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 11		
[Hyperkeratosis TGLS = 9]			
[Hyperplasia TGLS = 9]			
[Squamous Cell Carcinoma TGLS = 10]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 15]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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 - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Mammary Gland	Nose	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4 [Leukemia Mononuclear TGLS = 4]			
Bone Marrow		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Marked
Note: LEUKEMIA MONUC TGLs = 5 Note: NECROSIS TGLs = 5			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Minimal
		Basophilic Focus	
Spleen	Capsule	Fibrosis	Multifocal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2 [Leukemia Mononuclear TGLS = 3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Glandular	Edema	Mild
	Glandular	Ulcer	Multiple, Mild
Testes	Interstit Cell	Adenoma	Multiple
		Leukemia Mononuclear	
[Adenoma TGLS = 1]			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 3

SEX: Male

DAY ON TEST: 647

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Mammary Gland
Nose	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Tooth
Trachea	Urinary Bladder		

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Inflammation	Chronic, Focal, Moderate
[Inflammation TGLS = 6]			
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8]			
Lymph Node	Mesenteric	Ectasia	Marked
Pancreas		Atrophy	Focal, Mild
Prostate		Inflammation	Suppurative, Acute, Moderate
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4]			
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			
Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 3

SEX: Male

DAY ON TEST: 647

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Peripheral Nerve	Prostate
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Multiple
		Developmental Malformation	
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Marked
[Basophilic Focus TGLS = 4]			
[Leukemia Mononuclear TGLS = 3]			
[Proliferation TGLS = 3]			
Lung		Alveolar/Bronchiolar Adenoma	
Pancreas		Atrophy	Focal, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Foreign Body	Mild
		Inflammation	Suppurative, Acute, Moderate
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Peripheral Nerve
Preputial Gland	Salivary Glands	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Marked
Kidney		Nephropathy	Chronic, Mild
Liver		Clear Cell Focus	
		Developmental Malformation	
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Marked
Note: PROLIFERATION TGLs = 6			
Note: LEUKEMIA MONUC TGLs = 6			
[Developmental Malformation TGLS = 2]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Marked
Pituitary Gland	Pars Distalis	Cyst	
Prostate		Inflammation	Suppurative, Acute, Mild
Skin	Subcut Tiss	Fibrosarcoma	
		Foreign Body	Mild
		Inflammation	Granulomatous, Focal, Moderate

Note: SKIN;GRANULOMATOUS INFLAMMATION ON FACE

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 12	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: UNTREATD CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosarcoma TGLS = 1]			
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 3			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 3

SEX: Male

DAY ON TEST: 690

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Small - Ileum
Mammary Gland
Preputial Gland
Spleen
Urinary Bladder

Bone Marrow
Esophagus
Intestine Small - Jejunum
Nose
Salivary Glands
Thymus

Brain
Intestine Large - Cecum
Islets, Pancreatic
Peripheral Nerve
Skin
Thyroid Gland

Ear
Intestine Small - Duodenum
Lymph Node - Mandibular
Pituitary Gland
Spinal Cord
Trachea

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland
Blood Vessel
[Mineralization TGLS = 12]

Medulla
Aorta

Pheochromocytoma Benign
Mineralization

Diffuse, Marked

Bone
Eye

Fibrous Osteodystrophy
Cataract
Degeneration

Marked
Marked
Marked

Retina

[Cataract TGLS = 1]
[Degeneration TGLS = 1]

Heart

Cardiomyopathy
Mineralization

Marked
Multifocal, Marked

[Mineralization TGLS = 11]

Intestine Large

Colon
Rectum

Mineralization
Mineralization

Multifocal, Moderate
Multifocal, Moderate

[Mineralization TGLS = 7]
[Mineralization TGLS = 8]

Kidney

Mineralization
Nephropathy

Diffuse, Marked
Chronic, Marked

[Mineralization TGLS = 4]
[Nephropathy TGLS = 4,5]

Liver

Angiectasis

Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 12	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 690 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
		Clear Cell Focus Degeneration	Cystic, Mild
[Angiectasis TGLS = 9]			
Lung		Mineralization	Multifocal, Marked
[Mineralization TGLS = 10]			
Pancreas		Adenoma	
Parathyroid Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 13]			
Prostate		Inflammation	Suppurative, Acute, Mild
Skeletal Muscle		Mineralization	Multifocal, Moderate
[Mineralization TGLS = 14]			
Stomach	Forestomach	Mineralization	Diffuse, Marked
	Glandular	Mineralization	Diffuse, Marked
[Mineralization TGLS = 6]			
[Mineralization TGLS = 6]			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
[Adenoma TGLS = 2]			
[Atrophy TGLS = 3]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 5

SEX: Male

DAY ON TEST: 701

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Epididymis

Esophagus

Intestine Large - Cecum

Intestine Large - Colon

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mandibular

Lymph Node - Mesenteric

Mammary Gland

Nose

Parathyroid Gland

Peripheral Nerve

Pituitary Gland

Preputial Gland

Salivary Glands

Skin

Spinal Cord

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Brain

Astrocytoma Malignant

Heart

Cardiomyopathy

Moderate

Intestine Large

Rectum

Parasite Metazoan

Mild

Kidney

Cortex

Cyst

Nephropathy

Chronic, Marked

[Cyst TGLS = 3]

[Nephropathy TGLS = 2]

Liver

Granuloma

Multifocal, Mild

Pancreas

Atrophy

Focal, Marked

Prostate

Inflammation

Suppurative, Acute, Minimal

Testes

Interstitial Cell

Adenoma

Multiple

[Adenoma TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 584

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Leukemia Mononuclear	
	Biliar Tract	Necrosis	Mild
		Proliferation	Marked
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Prostate		Inflammation	Suppurative, Acute, Minimal
Spleen		Leukemia Mononuclear	
Testes	Interstitial Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 3

SEX: Male

DAY ON TEST: 677

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Peripheral Nerve	Preputial Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Pituitary Gland

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Developmental Malformation	
	Centrilobular	Leukemia Mononuclear	
	Biliar Tract	Necrosis	Moderate
		Proliferation	Marked
[Developmental Malformation TGLS = 7]			
[Leukemia Mononuclear TGLS = 6]			
[Necrosis TGLS = 6]			
[Proliferation TGLS = 6]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8]			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Popliteal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 3

SEX: Male

DAY ON TEST: 677

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 9]

Mammary Gland

Duct

Cyst

Pancreas

Atrophy

Focal, Minimal

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5]

Stomach

Glandular

Inflammation

Chronic, Diffuse, Moderate

Testes

Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 3]

Atrophy

Moderate

[Atrophy TGLS = 4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Liver
Mammary Gland
Peripheral Nerve
Skin
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Pituitary Gland
Spinal Cord
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Prostate
Stomach - Forestomach
Trachea

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Heart
Kidney
Lymph Node
 [Hyperplasia TGLS = 1]
Preputial Gland
 [Carcinoma TGLS = 2]
 [Cyst TGLS = 2]
Spleen
Testes

Inguinal

Duct

Interstit Cell

Cardiomyopathy
Nephropathy
Hyperplasia

Carcinoma
Cyst

Hematopoietic Cell Proliferation
Adenoma

Minimal
Chronic, Mild
Moderate

Marked
Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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 - Mesenteric
Mammary Gland	Nose	Pancreas	Peripheral Nerve
Pituitary Gland	Prostate	Salivary Glands	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Multifocal, Moderate
		Basophilic Focus	Multiple
		Degeneration	Cystic, Marked
	Biliar Tract	Proliferation	Mild
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Hyperplasia	Moderate
Preputial Gland		Adenoma	
[Adenoma TGLS = 1,4]			
Skin		Inflammation	Chronic, Focal, Moderate
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
Note: ADENOMA TGLs = 3			
[Atrophy TGLS = 2]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 3

SEX: Male

DAY ON TEST: 553

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Peripheral Nerve
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Skin
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Preputial Gland
Spinal Cord
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Prostate
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Harderian Gland
Heart
Kidney
Liver

Cortex

Degeneration
Inflammation
Cardiomyopathy
Nephropathy
Granuloma
Proliferation
Hematopoietic Cell Proliferation
Sarcoma

Fatty, Focal, Mild
Chronic, Focal, Moderate
Mild
Chronic, Moderate
Multifocal, Minimal
Mild
Moderate

Biliar Tract

Spleen

Note: HEMA CELL PROL TGLs = 1

Testes

Interstitial Cell
Interstitial Cell

Adenoma
Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Small - Duodenum
Liver
Mammary Gland
Peripheral Nerve
Spleen
Thyroid Gland

Bone
Esophagus
Intestine Small - Ileum
Lung
Nose
Prostate
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

MISSING

Preputial Gland

OBSERVATIONS

Heart
Intestine Large
Kidney
Pituitary Gland
Skin
[Fibroma TGLS = 1]
Testes
[Adenoma TGLS = 2]

Rectum
Pars Distalis
Subcut Tiss
Interstit Cell

Cardiomyopathy
Parasite Metazoan
Nephropathy
Hyperplasia
Fibroma
Adenoma

Moderate
Mild
Chronic, Moderate
Focal, Mild
Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 716

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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 - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Preputial Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland [Pheochromocytoma Malignant TGLS = 3]	Medulla	Pheochromocytoma Malignant	Multiple
Heart		Cardiomyopathy	Moderate
Kidney [Cyst TGLS = 6] [Nephropathy TGLS = 4]	Cortex	Cyst Nephropathy	Chronic, Marked
Liver		Angiectasis Leukemia Mononuclear	Focal, Mild
Lymph Node Pharynx [Squamous Cell Papilloma TGLS = 1]	Mandibular	Hyperplasia Squamous Cell Papilloma	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
Testes [Adenoma TGLS = 2]	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Hyperplasia	Focal, Moderate
	Medulla	Pheochromocytoma Benign	
Eye	Retina	Cataract	Marked
		Degeneration	Marked
Heart		Cardiomyopathy	Moderate
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
Liver	Biliar Tract	Leukemia Mononuclear Proliferation	Marked
Pituitary Gland		Craniopharyngioma	
Preputial Gland		Hyperplasia	Moderate
Prostate		Inflammation	Suppurative, Acute, Mild
Spleen		Fibrosis	Focal, Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 15

TRT#: 3
DOSE: 0.01%

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 729
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 7]

[Leukemia Mononuclear TGLS = 6]

Testes

Interstit Cell

Adenoma

Atrophy

Multiple

Moderate

[Adenoma TGLS = 3]

[Atrophy TGLS = 4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 5

SEX: Male

DAY ON TEST: 630

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Peripheral Nerve
Skin
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Spinal Cord
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Preputial Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Blood
Note: LEUKEMIA MONUC TGLs = 1
Heart
Kidney
Liver

Note: LEUKEMIA MONUC TGLs = 8
[Leukemia Mononuclear TGLS = 9]
Lung
Prostate
Spleen
Note: LEUKEMIA MONUC TGLs = 6
Testes
Note: ADENOMA TGLs = 5

Interstit Cell

Leukemia Mononuclear

Cardiomyopathy
Nephropathy
Leukemia Mononuclear
Neoplastic Nodule

Leukemia Mononuclear
Inflammation
Leukemia Mononuclear

Adenoma

Minimal
Chronic, Mild

Suppurative, Acute, Mild

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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 - Mesenteric	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Prostate	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 6			
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
Note: PROLIFERATION TGLs = 8			
Note: NECROSIS TGLs = 8			
Note: LEUKEMIA MONUC TGLs = 8			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9			
Lymph Node	Mandibular	Ectasia	Moderate
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10			
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland		Inflammation	Suppurative, Acute, Mild
Spleen		Developmental Malformation	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 727

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

Note: TGL 1 PANCREAS IS SPLEEN;ACCESSORY SPLEEN

Note: LEUKEMIA MONUC TGLs = 5

[Developmental Malformation TGLS = 1]

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Mild

Note: ATROPHY TGLs = 4

Note: ADENOMA TGLs = 3

Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 0.01%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Ear	Epididymis
Esophagus	Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tooth	Trachea
Urinary Bladder			

MISSING

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum
-------------------------	-------------------------	----------------------------

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Degeneration Pheochromocytoma Malignant	Fatty, Focal, Mild
	[Pheochromocytoma Malignant TGLS = 2]		
Bone Marrow		Hypoplasia	Moderate
Eye	Retina	Cataract Degeneration	Marked Marked
	Note: CATARACT TGLs = 5 [Cataract TGLS = 5]		
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver	Centrilobular Biliar Tract	Clear Cell Focus Necrosis	Mild
		Proliferation	Marked
Nose		Foreign Body Fungus	Mild Moderate
		Inflammation	Suppurative, Acute, Moderate
Pancreas		Atrophy	Focal, Moderate
Testes	Interstit Cell	Adenoma	Multiple
	[Adenoma TGLS = 1]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 0.01%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 0.005%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Peripheral Nerve
Skin
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Spinal Cord
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Prostate
Spleen
Thyroid Gland

MISSING

Pituitary Gland

OBSERVATIONS

Heart

Atrium

Cardiomyopathy

Mild

Kidney

Thrombosis

Marked

Liver

Nephropathy

Chronic, Moderate

Testes

Centrilobular

Angiectasis

Focal, Minimal

Interstit Cell

Necrosis

Moderate

Adenoma

Multiple

[Adenoma TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 616

DOSE: UNTREATD CONTROL

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Ear
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mandibular	Lymph Node - Mesenteric	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Spleen	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM BGN TGLs = 4	Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Diffuse, Marked
Bone		Fibrous Osteodystrophy	Marked
Eye Note: CATARACT TGLs = 9 [Cataract TGLS = 9]	Retina	Cataract	Marked
		Degeneration	Marked
Heart Note: CARDIOMYOPATHY TGLs = 8 [Cardiomyopathy TGLS = 8]		Cardiomyopathy	Marked
		Mineralization	Multifocal, Marked
Intestine Large	Artery, Colon	Mineralization	Moderate
Kidney Note: MINERALIZATION TGLs = 5,6 [Mineralization TGLS = 5]		Mineralization	Diffuse, Marked
		Nephropathy	Chronic, Marked
Liver	Artery	Mineralization	Moderate
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Mild
Lung		Mineralization	Multifocal, Moderate
Mammary Gland [Cyst TGLS = 2]	Duct	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 616

DOSE: UNTREATD CONTROL

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pancreas		Atrophy	Focal, Mild
		Fibrosis	Focal, Mild
Note: ATROPHY	TGLs = 3		
[Fibrosis TGLS = 3]			
Parathyroid Gland		Hyperplasia	Marked
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 10		
Preputial Gland		Adenoma	
	Duct	Cyst	
[Adenoma TGLS = 1]			
[Cyst TGLS = 1]			
Prostate		Inflammation	Suppurative, Acute, Mild
Stomach	Forestomach	Mineralization	Diffuse, Moderate
	Glandular	Mineralization	Diffuse, Moderate
Testes	Artery	Mineralization	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 3

SEX: Male

DAY ON TEST: 723

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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	Lymph Node - Mandibular
Mammary Gland	Nose	Parathyroid Gland	Peripheral Nerve
Preputial Gland	Prostate	Salivary Glands	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
Note: THROMBUS TGLs = 11			
Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 7]			
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY TGLs = 5			
Liver		Hepatocellular Carcinoma	
	Centrilobular	Leukemia Mononuclear	
	Biliar Tract	Necrosis	Mild
		Proliferation	Marked
		Regeneration	Moderate
[Hepatocellular Carcinoma TGLS = 9]			
[Leukemia Mononuclear TGLS = 8]			
[Necrosis TGLS = 8]			
[Proliferation TGLS = 8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 3

SEX: Male

DAY ON TEST: 723

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Multifocal, Mild
[Infiltration Cellular TGLS = 13]			
[Leukemia Mononuclear TGLS = 12]			
Lymph Node	Mesenteric	Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Focal, Mild
Skin		Inflammation	Suppurative, Acute, Focal, Mild
Note: SKIN- INFLAMMATION ON FACE			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4]			
Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
[Adenoma TGLS = 3]			
[Atrophy TGLS = 2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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 - Mesenteric	Mammary Gland	Nose
Peripheral Nerve	Pituitary Gland	Preputial Gland	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	Multiple
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Moderate
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Moderate
Parathyroid Gland		Hyperplasia	Mild
Prostate		Inflammation	Suppurative, Acute, Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate

[Adenoma TGLS = 1]

[Atrophy TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Prostate	Salivary Glands
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Focal, Mild
		Degeneration	Cystic, Mild
		Mixed Cell Focus	
	Biliar Tract	Proliferation	Minimal
Preputial Gland		Inflammation	Suppurative, Acute, Mild
Skin		Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 1			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			
Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 3

DOSE: 0.01%

SEX: Male

DISP: Natural Death

DAY ON TEST: 666

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Ear	Epididymis	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
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Prostate
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Preputial Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Eye	Retina	Cataract	Marked
		Degeneration	Marked
[Cataract TGLS = 3]			
[Degeneration TGLS = 3]			
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 4			
Liver		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Moderate
Lung		Leukemia Mononuclear	
Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ADENOMA TGLs = 2			
[Atrophy TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

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	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart	Atrium	Leukemia Mononuclear	
	Atrium	Thrombosis	Mild
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
		[Leukemia Mononuclear TGLS = 8]	
		[Nephropathy TGLS = 8]	
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
		[Leukemia Mononuclear TGLS = 6,7,5]	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3]	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Preputial Gland		Carcinoma	
		[Carcinoma TGLS = 1]	
Prostate		Leukemia Mononuclear	
Seminal Vesicle		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 684 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen [Leukemia Mononuclear TGLS = 4]		Leukemia Mononuclear	
Stomach	Glandular	Edema	Mild
Testes [Adenoma TGLS = 2]	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4]			
Liver	Biliar Tract	Proliferation	Minimal
Pancreas		Atrophy	Focal, Mild
Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 01]			
Spleen		Hematopoietic Cell Proliferation	Mild
Testes	Interstit Cell	Adenoma	
		Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild

Note: ADENOMA TGLs = 2

[Atrophy TGLS = 3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Tongue	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Medulla	Pheochromocytoma Benign	
Eye	Retina	Cataract	Marked
		Degeneration	Marked
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Moderate
Lung		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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 - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Degeneration Pheochromocytoma Malignant	Fatty, Focal, Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 4]			
Liver	Biliar Tract	Leukemia Mononuclear Proliferation	Marked
[Leukemia Mononuclear TGLS = 5]			
[Proliferation TGLS = 5]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Mild
Spleen		Fibrosis	Focal, Minimal
[Fibrosis TGLS = 3]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2]			
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 1]			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 703

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Eye	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Pancreas
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Preputial Gland
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 7]			
Liver		Angiectasis	Focal, Moderate
		Developmental Malformation	
		Hepatocellular Carcinoma	
		Proliferation	Mild
[Developmental Malformation TGLS = 2]	Biliar Tract		
[Hepatocellular Carcinoma TGLS = 1]			
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 5]			
Nose	Nasolacrim Dct	Foreign Body	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pharynx		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 3]			
Prostate		Cyst	
		Inflammation	Suppurative, Acute, Minimal
Stomach	Forestomach	Perforation	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20	TRT#: 1	SEX: Male	DAY ON TEST: 703
	DOSE: UNTREATD CONTROL	DISP: Moribund Sacrifice	HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
	Forestomach	Ulcer	Marked
[Perforation TGLS = 8]			
[Ulcer TGLS = 8]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 3

SEX: Male

DAY ON TEST: 715

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Salivary Glands
Testes
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Skin
Thymus

Bone
Heart
Intestine Small - Duodenum
Lung
Pancreas
Spinal Cord
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Peripheral Nerve
Stomach - Glandular
Trachea

OBSERVATIONS

Brain
[Compression TGLS = 11]

Compression
Mild

Eye
[Cataract TGLS = 1]
[Degeneration TGLS = 1]

Retina
Cataract
Degeneration

Marked
Marked

Kidney
[Nephropathy TGLS = 7]

Nephropathy
Chronic, Marked

Liver
Mammary Gland
[Cyst TGLS = 2]
[Fibroadenoma TGLS = 5,6]

Duct
Vacuolization Cytoplasmic
Cyst
Fibroadenoma

Diffuse, Moderate

Parathyroid Gland
[Hyperplasia TGLS = 9]

Hyperplasia
Mild

Pituitary Gland
[Adenoma TGLS = 10]
[Angiectasis TGLS = 10]

Pars Distalis
Pars Distalis
Adenoma
Angiectasis

Marked

Preputial Gland
[Cyst TGLS = 4]

Duct
Cyst

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 20

TRT#: 3
DOSE: 0.01%

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 715
HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Suppurative, Acute, Mild
Spleen		Hematopoietic Cell Proliferation	Marked
Stomach	Forestomach	Hyperkeratosis	Mild
	Forestomach	Hyperplasia	Mild
	Forestomach	Inflammation	Chronic, Moderate
	[Hyperkeratosis TGLS = 8]		
	[Hyperplasia TGLS = 8]		
	[Inflammation TGLS = 8]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 5

SEX: Male

DAY ON TEST: 629

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Preputial Gland
Spinal Cord
Trachea

Bone Marrow
Esophagus
Intestine Small - Duodenum
Liver
Nose
Prostate
Spleen
Urinary Bladder

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Peripheral Nerve
Salivary Glands
Thymus

Ear
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pituitary Gland
Skin
Thyroid Gland

OBSERVATIONS

Adrenal Gland
Blood Vessel
Bone
Heart
Kidney
 [Nephropathy TGLS = 3,4]
Lung
Lymph Node
 [Ectasia TGLS = 5]
Pancreas
Parathyroid Gland
Stomach

Testes
 [Adenoma TGLS = 2]
 [Atrophy TGLS = 1]

Medulla
Aorta

Renal

Forestomach
Glandular
Interstit Cell

Pheochromocytoma Benign
Mineralization
Fibrous Osteodystrophy
Cardiomyopathy
Nephropathy

Mineralization
Ectasia

Atrophy
Hyperplasia
Mineralization
Mineralization
Adenoma
Atrophy

Diffuse, Mild
Marked
Moderate
Chronic, Marked

Multifocal, Mild
Marked

Focal, Mild
Marked
Diffuse, Marked
Diffuse, Marked
Multiple
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 703

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Spinal Cord	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Thymus

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 2]			
[Degeneration TGLS = 2]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5			
Liver	Serosa	Inflammation	Suppurative, Acute, Focal, Mild
	Biliar Tract	Proliferation	Minimal
Note: INFLAMMATION TGLs = 8			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 3]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Moderate
Note: PIGMENT TGLs = 10			
Note: ANGIECTASIS TGLs = 10			
Note: ADENOMA TGLs = 10			
Preputial Gland	Duct	Cyst	
		Inflammation	Suppurative, Acute, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 21	TRT#: 1 DOSE: UNTREATD CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 703 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

<p>[Cyst TGLS = 4] [Inflammation TGLS = 4]</p> <p>Prostate Skin</p> <p>Note: SKIN;FOREIGN BODY AND GRANULOMATOUS INFLAMMATION;FACE [Hyperkeratosis TGLS = 1] [Hyperplasia TGLS = 1]</p> <p>Spleen Stomach</p> <p>Note: INFLAMMATION TGLs = 7 Note: ULCER TGLs = 6</p> <p>Testes</p>	<p>Forestomach Forestomach Forestomach Forestomach Forestomach</p> <p>Interstit Cell</p>	<p>Inflammation Foreign Body Hyperkeratosis Hyperplasia Inflammation</p> <p>Hematopoietic Cell Proliferation Edema Hyperplasia Inflammation Inflammation Ulcer</p> <p>Adenoma</p>	<p>Suppurative, Acute, Mild Mild Focal, Mild Focal, Mild Granulomatous, Focal, Mild</p> <p>Moderate Moderate Marked Suppurative, Acute, Marked Chronic, Marked Marked</p> <p>Multiple</p>
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PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 3

SEX: Male

DAY ON TEST: 581

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Brain
Ear	Epididymis	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Parathyroid Gland	Peripheral Nerve	Preputial Gland	Salivary Glands
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Eye		Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLS = 1]		
	[Degeneration TGLS = 1]		
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 5		
Liver		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Moderate
	[Leukemia Mononuclear TGLS = 6]		
	[Proliferation TGLS = 6]		
Lung		Leukemia Mononuclear	
Nose	Respirat Epith	Adenoma	
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
	[Cyst TGLS = 8]		
	[Hyperplasia TGLS = 8]		
Prostate		Inflammation	Suppurative, Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 3

SEX: Male

DAY ON TEST: 581

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Skin [Fibroma TGLS = 2]	Subcut Tiss	Fibroma	
Spleen [Leukemia Mononuclear TGLS = 4]		Leukemia Mononuclear	
Testes [Adenoma TGLS = 3]	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Peripheral Nerve
Spinal Cord
Thyroid Gland

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Liver
Mammary Gland
Prostate
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Lung
Nose
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Skin
Thymus

OBSERVATIONS

Heart
Islets, Pancreatic
Kidney
 [Nephropathy TGLS = 3]
Pancreas
Pituitary Gland
Preputial Gland
Spleen
 [Fibrosis TGLS = 2]
Testes
 [Adenoma TGLS = 1]

Pars Distalis

Interstit Cell

Cardiomyopathy
Adenoma
Nephropathy

Atrophy
Hyperplasia
Inflammation
Fibrosis

Adenoma

Mild

Chronic, Marked

Focal, Marked
Focal, Moderate
Suppurative, Acute, Mild
Focal, Mild

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 581

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart	Atrium	Thrombosis	
Note: THROMBUS TGLs = 8			
Kidney		Nephropathy	Chronic, Minimal
Liver	Centrilobular	Necrosis	Moderate
Note: NECROSIS TGLs = 6			
Lymph Node	Iliac	Hyperplasia	Marked
[Hyperplasia TGLS = 3]			
Pancreas		Atrophy	Focal, Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Preputial Gland	Duct	Adenoma	
Note: CYST TGLs = 2		Cyst	
Note: ADENOMA TGLs = 2			
Prostate		Inflammation	Suppurative, Acute, Minimal
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL TGLs = 5			
Stomach	Glandular	Erosion	Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 4			
Zymbal's Gland		Adenoma	
Note: ADENOMA TGLs = 1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 581

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 3

SEX: Male

DAY ON TEST: 671

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	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	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Peripheral Nerve	Preputial Gland	Salivary Glands	Skin
Spinal Cord	Spleen	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
		Hemorrhage	Marked
[Cataract TGLS = 2]			
[Degeneration TGLS = 2]			
[Hemorrhage TGLS = 1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 6]			
Liver		Vacuolization Cytoplasmic	Diffuse, Marked
Note: VACUOLIZ CYTO TGLs = 9			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 3]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ANGIECTASIS TGLs = 10			
Note: ADENOMA TGLs = 10			
Prostate		Inflammation	Suppurative, Acute, Moderate
Stomach	Forestomach	Hyperkeratosis	Marked
	Forestomach	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 22	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 671 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Inflammation	Chronic, Marked
	Forestomach	Ulcer	Marked
	Glandular	Ulcer	Multiple, Moderate
[Ulcer TGLS = 7]			
Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal

Note: ADENOMA TGLs = 5
[Atrophy TGLS = 4]

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Mammary Gland	Nose
Parathyroid Gland	Peripheral Nerve	Preputial Gland	Prostate
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 3]			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
		Vacuolization Cytoplasmic	Focal, Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4]			
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 679

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Salivary Glands	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
Bone		Osteosarcoma	
[Osteosarcoma TGLS = 4]			
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY			
TGLs = 11			
Liver		Angiectasis	Focal, Moderate
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Marked
Note: LEUKEMIA MONUC			
TGLs = 13			
[Angiectasis TGLS = 13,14]			
[Leukemia Mononuclear TGLS = 14]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
Mesentery		Mineralization	Multifocal, Mild
	Fat	Necrosis	Focal, Moderate
[Mineralization TGLS = 2]			
[Necrosis TGLS = 2]			
Pancreas		Atrophy	Focal, Moderate
Note: ATROPHY			
TGLs = 9			
Prostate		Osteosarcoma	Metastatic (Bone)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 23	TRT#: 1	SEX: Male	DAY ON TEST: 679
	DOSE: UNTREATD CONTROL	DISP: Moribund Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: OSTEOSARC TGLs = 3			
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1]			
Spleen		Fibrosis	Focal, Marked
		Hematopoietic Cell Proliferation	Marked
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 5			
Note: LEUKEMIA MONUC TGLs = 10			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ATROPHY TGLs = 7			
[Atrophy TGLS = 8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Ear	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
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Peripheral Nerve	Preputial Gland	Prostate	Salivary Glands
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Eye	Retina	Cataract	Marked
		Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
[Cyst TGLS = 4]			
[Nephropathy TGLS = 4]			
Liver		Leukemia Mononuclear	
		Mixed Cell Focus	
	Biliar Tract	Proliferation	Moderate
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Skin		Inflammation	Granulomatous, Focal, Mild
Note: SKIN: INFLAMMATION IS ON FACE			
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
[Adenoma TGLS = 3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 5

SEX: Male

DAY ON TEST: 535

DOSE: 0.005%

DISP: Natural Death

HISTO:

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	Kidney	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Peripheral Nerve	Pituitary Gland
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OBSERVATIONS

Heart		Cardiomyopathy	Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Marked
[Leukemia Mononuclear TGLS = 8]			
[Proliferation TGLS = 8]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7]			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3]			
Spleen		Fibrosis	Diffuse, Marked
[Fibrosis TGLS = 4]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Preputial Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear Proliferation	Marked
Note: LEUKEMIA MONUC TGLs = 6	Biliar Tract		
Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Developmental Malformation	
		Hematopoietic Cell Proliferation	Marked
		Leukemia Mononuclear	
[Developmental Malformation TGLS = 1]			
[Hematopoietic Cell Proliferation TGLS = 2,4]			
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 3			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 3

SEX: Male

DAY ON TEST: 681

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Ear
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Intestine Small - Duodenum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Moderate
	Medulla	Hyperplasia	Focal, Moderate
Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 6]			
Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Marked
	Atrium	Thrombosis	Marked
[Thrombosis TGLS = 12]			
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 10]			
Liver	Centrilobular	Necrosis	Minimal
	Biliar Tract	Proliferation	Moderate
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 5,7,8,11]			
Pancreas		Adenoma	
		Atrophy	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 24	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 681 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 9]			
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2]			
Spleen		Hematopoietic Cell Proliferation	Marked
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 4]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Nose	Peripheral Nerve	Salivary Glands
Spinal Cord	Spleen	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Diffuse, Moderate
Bone		Fibrous Osteodystrophy	Marked
Heart		Cardiomyopathy	Moderate
		Mineralization	Multifocal, Minimal
Kidney	Cortex	Cyst	
		Mineralization	Diffuse, Mild
		Nephropathy	Chronic, Marked
[Mineralization TGLS = 4]			
[Nephropathy TGLS = 4,5]			
Liver	Biliar Tract	Proliferation	Minimal
Lung		Mineralization	Multifocal, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2]			
Pancreas		Atrophy	Focal, Moderate
Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 6			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: ADENOMA TGLs = 7			
[Adenoma TGLS = 7]			
Preputial Gland		Inflammation	Suppurative, Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 5

DOSE: 0.005%

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Suppurative, Acute, Mild
Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1]			
Stomach	Forestomach	Mineralization	Diffuse, Mild
	Glandular	Mineralization	Diffuse, Marked
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 666

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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 - Mesenteric
Nose	Peripheral Nerve	Preputial Gland	Salivary Glands
Skin	Spinal Cord	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	
	Medulla	Hyperplasia	Focal, Mild
	Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Diffuse, Marked
Bone		Fibrous Osteodystrophy	Moderate
Heart		Cardiomyopathy	Moderate
Kidney		Mineralization	Diffuse, Marked
		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 3 [Nephropathy TGLS = 3]			
Liver		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Moderate
Lung		Infiltration Cellular	Histiocyte, Multifocal, Moderate
		Mineralization	Multifocal, Moderate
Note: MINERALIZATION TGLs = 4 [Mineralization TGLS = 4]			
Lymph Node	Mandibular	Ectasia	Marked
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Moderate
Parathyroid Gland		Hyperplasia	Marked
Note: HYPERPLASIA TGLs = 5			
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST TGLs = 6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 25	TRT#: 1	SEX: Male	DAY ON TEST: 666
	DOSE: UNTREATD CONTROL	DISP: Moribund Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Prostate		Inflammation	Suppurative, Acute, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2		
Stomach	Forestomach	Mineralization	Diffuse, Moderate
	Glandular	Mineralization	Diffuse, Moderate
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
[Adenoma TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 3

SEX: Male

DAY ON TEST: 683

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Preputial Gland	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Eye		Cataract	Marked
		Hemorrhage	Moderate
Note: HEMORRHAGE TGLs = 7 [Hemorrhage TGLS = 7]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
[Leukemia Mononuclear TGLS = 3,4] [Proliferation TGLS = 3,4]			
Lung		Infiltration Cellular	Histiocyte, Multifocal, Marked
		Leukemia Mononuclear	
Note: INFILTRAT CELL TGLs = 5			
Mammary Gland	Duct	Cyst	
Prostate		Inflammation	Suppurative, Acute, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2]			
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 3

SEX: Male

DAY ON TEST: 683

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 5

SEX: Male

DAY ON TEST: 681

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Peripheral Nerve
Spinal Cord
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Preputial Gland
Stomach - Forestomach
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Prostate
Stomach - Glandular
Urinary Bladder

Brain
Intestine Large - Colon
Lymph Node - Mesenteric
Salivary Glands
Thymus

MISSING

Parathyroid Gland

OBSERVATIONS

Bone Marrow

Leukemia Mononuclear

Eye

Cornea

Inflammation

Suppurative, Acute, Moderate

[Inflammation TGLS = 2]

Heart

Cardiomyopathy

Mild

Intestine Small

Jejunum

Leiomyosarcoma

[Leiomyosarcoma TGLS = 9]

Islets, Pancreatic

Adenoma

[Adenoma TGLS = 7]

Kidney

Nephropathy

Chronic, Mild

Liver

Leukemia Mononuclear

Centrilobular

Necrosis

Mild

Biliar Tract

Proliferation

Marked

[Leukemia Mononuclear TGLS = 10]

[Proliferation TGLS = 10]

Lung

Carcinoma

Metastatic (Zymbal'S Gland)

[Carcinoma TGLS = 11]

Lymph Node

Mandibular

Ectasia

Moderate

Mandibular

Hyperplasia

Moderate

Mammary Gland

Duct

Cyst

[Cyst TGLS = 4]

Nose

Nasolacrim Dct

Inflammation

Suppurative, Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 5

SEX: Male

DAY ON TEST: 681

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	[Adenoma TGLS = 12]		
	[Angiectasis TGLS = 12]		
Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 3]		
Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
	[Hematopoietic Cell Proliferation TGLS = 8]		
	[Leukemia Mononuclear TGLS = 8]		
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
	[Adenoma TGLS = 6]		
	[Atrophy TGLS = 5]		
Zymbal's Gland		Carcinoma	
	[Carcinoma TGLS = 13]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Salivary Glands	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Moderate
Intestine Large	Rectum	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Leukemia Mononuclear Proliferation	Marked
		[Leukemia Mononuclear TGLS = 5]	
		[Proliferation TGLS = 6]	
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Moderate
		[Ectasia TGLS = 1]	
Pancreas		Adenoma	
		Atrophy	Focal, Mild
Preputial Gland	Duct	Cyst	
Prostate		Inflammation	Suppurative, Acute, Mild
Skin		Inflammation	Granulomatous, Focal, Mild
		Note: SKIN;FOCAL GRANULOMATOUS INFLAMMATION OF FACE	
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
		[Adenoma TGLS = 3]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Peripheral Nerve	Preputial Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Angiectasis	Focal, Mild
	Biliar Tract	Leukemia Mononuclear Proliferation	Moderate
Note: PROLIFERATION TGLs = 3 [Leukemia Mononuclear TGLS = 3]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4			
Pancreas		Adenoma	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ADENOMA TGLs = 5 Note: ANGIECTASIS TGLs = 5			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1]			
Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 5

SEX: Male

DAY ON TEST: 721

DOSE: 0.005%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Peripheral Nerve	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Pheochromocytoma Benign	Multiple
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY TGLs = 6			
Liver		Granuloma	Multifocal, Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Inguinal	Hyperplasia	Moderate
[Hyperplasia TGLS = 1]			
Pancreas		Atrophy	Focal, Moderate
[Atrophy TGLS = 4]			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
[Hematopoietic Cell Proliferation TGLS = 5]			
[Leukemia Mononuclear TGLS = 5]			
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 5

SEX: Male

DAY ON TEST: 721

DOSE: 0.005%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 283

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Spinal Cord
Testes

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Liver
Pancreas
Prostate
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Peripheral Nerve
Skin
Stomach - Glandular
Urinary Bladder

MISSING

Nose
Preputial Gland

OBSERVATIONS

Bone
[Osteosarcoma TGLS = 1]
Osteosarcoma

Heart
[Osteosarcoma TGLS = 6]
Osteosarcoma
Metastatic (Bone)

Kidney
Nephropathy
Chronic, Moderate

Lung
Osteosarcoma
Metastatic (Bone)
Note: OSTEOSARC TGLs = 4

Skeletal Muscle
Osteosarcoma
Metastatic (Bone)
[Osteosarcoma TGLS = 3,8]

Thymus
Osteosarcoma
Metastatic (Bone)
Note: OSTEOSARC TGLs = 5,7
Note: METASTATIC LESIONS IN MEDIASTINUM AROUND THYMUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Nose	Peripheral Nerve	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Pheochromocytoma Benign	Multiple
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
[Cyst TGLS = 9]			
[Nephropathy TGLS = 8]			
Liver		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Marked
[Leukemia Mononuclear TGLS = 11,12]			
[Proliferation TGLS = 11,12]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2]			
Pancreas		Atrophy	Focal, Mild
		Hyperplasia	Focal, Moderate
		Hyperplasia	Marked
Parathyroid Gland			
Note: HYPERPLASIA TGLs = 13			
Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 27	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spleen		Fibrosis Leukemia Mononuclear	Focal, Marked
[Fibrosis TGLS = 7] [Leukemia Mononuclear TGLS = 6]			
Testes	Interstit Cell	Adenoma Atrophy	Marked
Note: ADENOMA TGLs = 5 [Atrophy TGLS = 4]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 5

SEX: Male

DAY ON TEST: 723

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Epididymis	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Peripheral Nerve
Preputial Gland	Prostate	Salivary Glands	Spinal Cord
Spleen	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Intestine Large - Cecum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Carcinoma	
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 2]			
Liver	Biliar Tract	Proliferation	Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pancreas		Atrophy	Focal, Mild
Parathyroid Gland		Hyperplasia	Moderate
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA	TGLs = 7		
Note: ANGIECTASIS	TGLs = 7		
Skin		Inflammation	Chronic, Focal, Mild
Note: SKIN: INFLAMMATION ON SKIN OF FACE			
Stomach	Glandular	Edema	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Hyperplasia	Marked
	Forestomach	Inflammation	Suppurative, Acute, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 27	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 723 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Perforation	Marked
	Forestomach	Ulcer	Moderate
[Hyperplasia TGLS = 6] [Perforation TGLS = 4]			
Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
Note: ADENOMA TGLs = 9 Note: ATROPHY TGLs = 8			

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 710

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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 - Mesenteric	Nose	Pancreas	Peripheral Nerve
Preputial Gland	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

MISSING

Mammary Gland	Parathyroid Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 5]			
Liver		Developmental Malformation	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Marked
[Developmental Malformation TGLS = 8]			
[Leukemia Mononuclear TGLS = 7]			
[Necrosis TGLS = 7]			
[Proliferation TGLS = 7]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Hyperplasia	Moderate
	Mandibular	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
Prostate		Inflammation	Suppurative, Acute, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 710

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes [Adenoma TGLS = 3]	Interstit Cell	Adenoma	Multiple
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 3

SEX: Male

DAY ON TEST: 724

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Peripheral Nerve	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 3]			
Bone		Fibrous Osteodystrophy	Moderate
Heart		Cardiomyopathy	Moderate
		Pheochromocytoma Malignant	Metastatic (Adrenal Gland)
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
[Cyst TGLS = 4]			
[Nephropathy TGLS = 5,6]			
Liver		Angiectasis	Focal, Mild
	Biliar Tract	Proliferation	Mild
Parathyroid Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 9]			
Stomach	Glandular	Mineralization	Diffuse, Moderate
Testes	Interstit Cell	Adenoma	Multiple
		Hemorrhage	Moderate
[Adenoma TGLS = 1]			
[Hemorrhage TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 5

SEX: Male

DAY ON TEST: 679

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Ear
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	Lymph Node - Mesenteric	Nose
Parathyroid Gland	Peripheral Nerve	Preputial Gland	Salivary Glands
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 3]			
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
[Leukemia Mononuclear TGLS = 6]			
[Necrosis TGLS = 6]			
[Proliferation TGLS = 6]			
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 7]			
[Angiectasis TGLS = 7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 5

SEX: Male

DAY ON TEST: 679

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 7]

[Pigmentation TGLS = 7]

Prostate

Inflammation

Suppurative, Acute, Mild

Skin

Keratoacanthoma

[Keratoacanthoma TGLS = 2]

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4]

Testes

Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Peripheral Nerve	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Basophilic Focus	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
Lung		Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Mild
		Basophilic Focus	
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple

[Adenoma TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 3

SEX: Male

DAY ON TEST: 638

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Tongue	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Blood		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1]			
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Leukemia Mononuclear	
	Biliar Tract	Necrosis	Mild
[Leukemia Mononuclear TGLS = 6,7]		Proliferation	Marked
[Necrosis TGLS = 6,7]			
[Proliferation TGLS = 6,7]			
Lung		Hemorrhage	Multifocal, Moderate
		Leukemia Mononuclear	
[Hemorrhage TGLS = 8]			
[Leukemia Mononuclear TGLS = 8]			
Pancreas		Atrophy	Focal, Minimal
		Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4]			
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 3

SEX: Male

DAY ON TEST: 638

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Peripheral Nerve
Prostate	Salivary Glands	Seminal Vesicle	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 8]			
Bone Marrow		Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
[Cyst TGLS = 9]			
[Nephropathy TGLS = 9]			
Liver		Developmental Malformation	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Marked
[Developmental Malformation TGLS = 12]			
[Leukemia Mononuclear TGLS = 11]			
[Necrosis TGLS = 11]			
[Proliferation TGLS = 11]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13]			
Lymph Node	Mesenteric	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:47
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 29	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 637 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Mesentery [Necrosis TGLS = 4]	Mesenteric Fat	Leukemia Mononuclear Necrosis	Multifocal, Mild
Pituitary Gland Preputial Gland [Adenoma TGLS = 1] [Cyst TGLS = 1]	Duct	Leukemia Mononuclear Adenoma Cyst	
Spleen [Fibrosis TGLS = 7] [Leukemia Mononuclear TGLS = 6]		Fibrosis Leukemia Mononuclear	Focal, Moderate
Testes [Adenoma TGLS = 3] [Atrophy TGLS = 2]	Interstit Cell	Adenoma Atrophy	Multiple Mild
Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:47

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30	TRT#: 1 DOSE: UNTREATD CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 585 HISTO:
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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 - Mesenteric	Mammary Gland	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex Medulla	Degeneration Hyperplasia	Fatty, Focal, Mild Focal, Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular Biliar Tract	Leukemia Mononuclear Necrosis Proliferation	Mild Marked
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular Mandibular	Ectasia Leukemia Mononuclear	Moderate
Nose		Fungus Inflammation	Mild Suppurative, Acute, Mild
Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1]			
Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Marked
[Leukemia Mononuclear TGLS = 3]			
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Prostate
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Ear
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Peripheral Nerve
Salivary Glands
Stomach - Forestomach
Trachea

Bone
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Skin
Stomach - Glandular
Urinary Bladder

Bone Marrow
Esophagus
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Spinal Cord
Thymus

OBSERVATIONS

Heart
Kidney
Liver

Biliar Tract

Pancreas
Testes

Interstit Cell

Cardiomyopathy
Nephropathy
Eosinophilic Focus
Proliferation
Atrophy
Adenoma
Atrophy

Mild
Chronic, Moderate
Mild
Focal, Mild
Marked

Note: ADENOMA TGLs = 1

[Atrophy TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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	Peripheral Nerve	Preputial Gland	Prostate
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 4]			
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 5			
Liver		Angiectasis	Focal, Mild
		Degeneration	Cystic, Minimal
		Granuloma	Multifocal, Mild
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
Lymph Node	Mesenteric	Congestion	Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 6]			
[Angiectasis TGLS = 6]			
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild
[Adenoma TGLS = 3]			
[Atrophy TGLS = 2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 30

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Prostate	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Minimal
	Cortex	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Leukemia Mononuclear	
		Proliferation	Moderate
Lung		Leukemia Mononuclear	
Lymph Node	Mesenteric	Congestion	Mild
[Congestion TGLS = 5]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ADENOMA TGLs = 6			
[Adenoma TGLS = 6]			
Preputial Gland	Duct	Cyst	
		Inflammation	Suppurative, Acute, Mild
[Cyst TGLS = 1]			
[Inflammation TGLS = 1]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4]			
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Atrophy

Moderate

[Adenoma TGLS = 3]

[Atrophy TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 3

DOSE: 0.01%

SEX: Male

DISP: Natural Death

DAY ON TEST: 678

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Liver
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Peripheral Nerve	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Spinal Cord	Spleen
Stomach - Forestomach	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	Multiple
Note: PHEOCHROM MAL TGLs = 4			
Blood Vessel	Aorta	Mineralization	Diffuse, Mild
Bone		Fibrous Osteodystrophy	Marked
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 7			
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 5,6			
Lymph Node	Renal	Ectasia	Mild
Note: ECTASIA TGLs = 8			
Pancreas	Artery	Atrophy	Focal, Moderate
		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 7			
Parathyroid Gland		Hyperplasia	Marked
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1]			
Stomach	Glandular	Mineralization	Diffuse, Moderate
Testes	Interstit Cell	Adenoma	
	Arteriole	Inflammation	Chronic, Moderate
Note: ADENOMA TGLs = 3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 3

SEX: Male

DAY ON TEST: 678

DOSE: 0.01%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Adenoma

Note: ADENOMA TGLs = 9

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Prostate
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Parathyroid Gland
Salivary Glands
Thymus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Peripheral Nerve
Spinal Cord
Thyroid Gland

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Biliar Tract
Mandibular

Lymph Node
Nose

Pituitary Gland
Skin

Pars Distalis
Subcut Tiss

[Basal Cell Carcinoma TGLS = 1]
[Fibrosarcoma TGLS = 2]

Spleen

Testes

[Adenoma TGLS = 3]

Hyperplasia
Cardiomyopathy
Nephropathy
Leukemia Mononuclear
Proliferation
Ectasia
Fungus
Inflammation
Hyperplasia
Basal Cell Carcinoma
Fibrosarcoma

Hematopoietic Cell Proliferation
Leukemia Mononuclear
Adenoma

Moderate
Mild
Chronic, Moderate
Mild
Mild
Moderate
Suppurative, Acute, Mild
Focal, Mild

Moderate
Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Bone

Bone Marrow

Brain

Ear

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

Lymph Node - Mesenteric

Mammary Gland

Parathyroid Gland

Peripheral Nerve

Prostate

Salivary Glands

Skin

Spinal Cord

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Adrenal Gland

Medulla

Hyperplasia

Focal, Mild

Heart

Cardiomyopathy

Marked

Kidney

Nephropathy

Chronic, Marked

[Nephropathy TGLS = 4]

Liver

Leukemia Mononuclear

Centrilobular

Necrosis

Mild

Biliar Tract

Proliferation

Moderate

[Leukemia Mononuclear TGLS = 5]

[Necrosis TGLS = 5]

[Proliferation TGLS = 5]

Nose

Foreign Body

Mild

Fungus

Moderate

Inflammation

Suppurative, Acute, Mild

Pancreas

Atrophy

Focal, Minimal

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Focal, Moderate

Preputial Gland

Inflammation

Suppurative, Acute, Mild

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3]

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2]

[Atrophy TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 3

SEX: Male

DAY ON TEST: 656

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Preputial Gland	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 3		
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
Lung		Hemorrhage	Multifocal, Mild
		Leukemia Mononuclear	
[Hemorrhage TGLS = 4]			
[Leukemia Mononuclear TGLS = 5]			
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Prostate		Inflammation	Suppurative, Acute, Minimal
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,2]			
Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 5

SEX: Male

DAY ON TEST: 705

DOSE: 0.005%

DISP: Natural Death

HISTO:

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	Salivary Glands	Skin
Stomach - Forestomach	Stomach - Glandular	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Peripheral Nerve	Preputial Gland
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OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Marked
		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 3,4,5			
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7]			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8]			
[Leukemia Mononuclear TGLS = 1]			
Pituitary Gland		Leukemia Mononuclear	
Prostate		Inflammation	Suppurative, Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 32	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Natural Death	DAY ON TEST: 705 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Spinal Cord		Hemorrhage	Multifocal, Moderate
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			
Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 661

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
Note: LEUKEMIA MONUC TGLs = 10 [Leukemia Mononuclear TGLS = 10] [Necrosis TGLS = 10]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 11			
Lymph Node	Pancreatic	Ectasia	Moderate
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: ECTASIA TGLs = 1			
Note: LEUKEMIA MONUC TGLs = 4			
Note: LEUKEMIA MONUC TGLs = 12			
Note: LEUKEMIA MONUC TGLs = 9			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 661

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Ectasia TGLS = 1]

[Leukemia Mononuclear TGLS = 2]

Mammary Gland

Duct

Cyst

Note: CYST TGLs = 3

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7

Testes

Interstit Cell

Adenoma

Multiple

Note: ATROPHY TGLs = 5

Atrophy

Moderate

[Atrophy TGLS = 6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 3

SEX: Male

DAY ON TEST: 701

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Ear	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Testes	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
	Medulla	Hyperplasia	Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6]			
[Leukemia Mononuclear TGLS = 6]			
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Moderate
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
Note: NEPHROPATHY TGLs = 5			
[Leukemia Mononuclear TGLS = 5]			
Liver		Clear Cell Focus	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Marked
Note: LEUKEMIA MONUC TGLs = 8			
Note: PROLIFERATION TGLs = 8			
[Leukemia Mononuclear TGLS = 8]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Mammary Gland [Cyst TGLS = 1]	Mesenteric Pancreatic Duct	Leukemia Mononuclear Leukemia Mononuclear Cyst	
Pituitary Gland Note: ANGIECTASIS TGLs = 11 Note: ADENOMA TGLs = 11	Pars Distalis Pars Distalis	Adenoma Angiectasis	Mild
Preputial Gland [Cyst TGLS = 2] [Inflammation TGLS = 2]	Duct	Cyst Inflammation	Suppurative, Acute, Marked
Prostate		Inflammation	Suppurative, Acute, Mild
Spleen [Fibrosis TGLS = 4] [Leukemia Mononuclear TGLS = 3]		Fibrosis Leukemia Mononuclear	Focal, Moderate
Stomach Thymus	Glandular	Erosion Leukemia Mononuclear	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 5

SEX: Male

DAY ON TEST: 629

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Salivary Glands
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Mammary Gland
Peripheral Nerve
Spinal Cord
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Preputial Gland
Stomach - Forestomach
Urinary Bladder

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Prostate
Stomach - Glandular

OBSERVATIONS

Bone Marrow
Heart

Leukemia Mononuclear
Cardiomyopathy

Minimal

Kidney

Leukemia Mononuclear
Leukemia Mononuclear
Nephropathy

Chronic, Moderate

[Nephropathy TGLS = 6]

Liver

Centrilobular
Biliar Tract

Leukemia Mononuclear
Necrosis
Proliferation
Regeneration

Mild
Marked
Moderate

Note: LEUKEMIA MONUC TGLs = 7

Note: PROLIFERATION TGLs = 7

[Leukemia Mononuclear TGLS = 7]

Lung

Lymph Node

Bronchial
Mandibular
Mediastinal
Mesenteric

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8

Pituitary Gland

Skin

Pars Distalis

Leukemia Mononuclear
Inflammation

Suppurative, Acute, Focal, Mild

[Inflammation TGLS = 3]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 33	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 629 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Spleen [Leukemia Mononuclear TGLS = 5]		Leukemia Mononuclear	
Testes [Adenoma TGLS = 4]	Interstit Cell	Adenoma	Multiple
Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 625

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Ear	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	Peripheral Nerve
Pituitary Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
[Leukemia Mononuclear TGLS = 4]			
[Leukemia Mononuclear TGLS = 4]			
Bone Marrow		Leukemia Mononuclear	
Brain		Hemorrhage	Focal, Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10			
[Leukemia Mononuclear TGLS = 10]			
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6			
[Leukemia Mononuclear TGLS = 2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 625

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Preputial Gland

Inflammation

Suppurative, Acute, Mild

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3]

Stomach

Glandular

Ulcer

Marked

Note: ULCER TGLs = 7

Testes

Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 3

SEX: Male

DAY ON TEST: 534

DOSE: 0.01%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Duodenum
Mammary Gland
Peripheral Nerve
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Pituitary Gland
Skin
Thymus

Bone
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Preputial Gland
Spinal Cord
Thyroid Gland

Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Prostate
Stomach - Forestomach
Trachea

OBSERVATIONS

Bone Marrow
Brain

Leukemia Mononuclear
Hemorrhage
Leukemia Mononuclear

Multifocal, Moderate

Note: LEUKEMIA MONUC TGLs = 9

Heart

Atrium

Thrombosis

Mild

Note: THROMBUS TGLs = 10

Kidney

Leukemia Mononuclear
Nephropathy
Leukemia Mononuclear
Necrosis
Proliferation

Chronic, Mild

Liver

Centrilobular
Biliar Tract

Mild

Marked

[Leukemia Mononuclear TGLS = 6]

Lung

Hemorrhage
Leukemia Mononuclear

Multifocal, Mild

Note: LEUKEMIA MONUC TGLs = 7

Note: HEMORRHAGE TGLs = 7

Lymph Node

Mandibular
Mediastinal
Mesenteric
Pancreatic

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Natural Death	DAY ON TEST: 534 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4] Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3] Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
[Adenoma TGLS = 2] [Atrophy TGLS = 1]			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Peripheral Nerve	Pituitary Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Moderate
	Medulla	Pheochromocytoma Benign	Multiple
Blood Vessel	Aorta	Mineralization	Diffuse, Marked
Bone		Fibrous Osteodystrophy	Marked
Ductus Deferens		Mineralization	Diffuse, Moderate
Heart		Cardiomyopathy	Moderate
		Mineralization	Multifocal, Mild
Intestine Large	Colon	Mineralization	Multifocal, Mild
Note: MINERALIZATION TGLs = 9			
Kidney		Mineralization	Diffuse, Moderate
		Nephropathy	Chronic, Marked
[Mineralization TGLS = 6]			
[Nephropathy TGLS = 5,6,7]			
Liver		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Moderate
Note: LEUKEMIA MONUC TGLs = 10			
[Leukemia Mononuclear TGLS = 10]			
Lung		Leukemia Mononuclear	
		Mineralization	Multifocal, Mild
Lymph Node	Renal	Congestion	Moderate
	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 673 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 12		
Note: CONGESTION	TGLs = 11		
[Congestion TGLS = 14]			
Parathyroid Gland		Hyperplasia	Marked
Note: HYPERPLASIA	TGLs = 13		
Preputial Gland		Carcinoma Inflammation	Suppurative, Acute, Moderate
[Carcinoma TGLS = 1]			
[Inflammation TGLS = 1]			
Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Moderate
[Hematopoietic Cell Proliferation TGLS = 4]			
[Leukemia Mononuclear TGLS = 4]			
Stomach	Forestomach Glandular	Mineralization Mineralization	Diffuse, Moderate Diffuse, Moderate
[Mineralization TGLS = 8]			
[Mineralization TGLS = 8]			
Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
[Adenoma TGLS = 3]			
[Atrophy TGLS = 2]			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Peripheral Nerve
Pituitary Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	
	Biliar Tract	Proliferation	Mild
Lymph Node	Mediastinal	Ectasia	Moderate
Note: ECTASIA	TGLs = 14		
Preputial Gland		Inflammation	Suppurative, Acute, Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: THROMBUS	TGLs = 1		
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 3

SEX: Male

DAY ON TEST: 634

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Ear	Epididymis	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Peripheral Nerve	Pituitary Gland	Preputial Gland	Skin
Spinal Cord	Stomach - Forestomach	Thymus	Trachea

MISSING

Lymph Node - Mandibular	Parathyroid Gland	Salivary Glands
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OBSERVATIONS

Brain		Hemorrhage	Multifocal, Marked
		Leukemia Mononuclear	
Eye		Hyperplasia	Mild
[Hyperplasia TGLS = 1]			
Heart		Cardiomyopathy	Minimal
	Endocardium	Inflammation	Chronic, Focal, Mild
		Leukemia Mononuclear	
Intestine Large	Cecum	Inflammation	Chronic, Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
		Necrosis	Multifocal, Mild
	Biliar Tract	Proliferation	Marked
[Necrosis TGLS = 7]			
Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 2]			
Pancreas		Atrophy	Focal, Moderate
Prostate		Inflammation	Suppurative, Acute, Moderate
Spleen		Leukemia Mononuclear	
		Necrosis	Multifocal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 35	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 634 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3]			
[Necrosis TGLS = 4]			
Stomach	Glandular	Erosion	Mild
[Erosion TGLS = 10]			
Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
[Adenoma TGLS = 11]			
Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 8]			
Urinary Bladder		Hemorrhage	Multifocal, Mild
[Hemorrhage TGLS = 5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 5

SEX: Male

DAY ON TEST: 685

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

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	Mammary Gland
Nose	Parathyroid Gland	Peripheral Nerve	Preputial Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6]		
	[Leukemia Mononuclear TGLS = 6]		
Brain		Leukemia Mononuclear	
Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Moderate
	[Nephropathy TGLS = 7]		
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
	[Leukemia Mononuclear TGLS = 10]		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11]		
	[Leukemia Mononuclear TGLS = 4]		
	[Leukemia Mononuclear TGLS = 12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 35	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 685 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 3]	Fat	Necrosis	Focal, Moderate
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis Pars Distalis	Hyperplasia Leukemia Mononuclear Leukemia Mononuclear	Focal, Moderate
Spleen [Leukemia Mononuclear TGLS = 5]			
Testes [Adenoma TGLS = 1] [Atrophy TGLS = 2]	Interstit Cell	Adenoma Atrophy	Multiple Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 679

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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 - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mesenteric	Mammary Gland	Nose
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3		
Note: LEUKEMIA MONUC	TGLs = 3		
Kidney		Nephropathy	Chronic, Mild
Liver		Developmental Malformation	
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Moderate
Note: LEUKEMIA MONUC	TGLs = 5		
Note: PROLIFERATION	TGLs = 5		
[Developmental Malformation TGLS = 6]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Moderate
	Mandibular	Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Mild
Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2		
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 3

SEX: Male

DAY ON TEST: 677

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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	Mammary Gland	Nose	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Moderate
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Note: CARDIOMYOPATHY TGLs = 10			
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
[Leukemia Mononuclear TGLS = 5]			
[Necrosis TGLS = 5]			
[Proliferation TGLS = 5]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8]			
[Leukemia Mononuclear TGLS = 7]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 36	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 677 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Atrophy	Focal, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4]			
Stomach	Forestomach	Edema	Mild
	Glandular	Edema	Mild
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Marked
[Adenoma TGLS = 3]			
[Atrophy TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 5

SEX: Male

DAY ON TEST: 693

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone Marrow	Brain	Epididymis
Esophagus	Eye	Intestine Large - Cecum	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Peripheral Nerve
Pituitary Gland	Preputial Gland	Salivary Glands	Skin
Spinal Cord	Spleen	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Skeletal Muscle

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Blood Vessel	Aorta	Mineralization	Diffuse, Moderate
Note: MINERALIZATION TGLs = 8			
Bone		Fibrous Osteodystrophy	Marked
Ductus Deferens		Mineralization	Diffuse, Marked
[Mineralization TGLS = 3]			
Heart		Cardiomyopathy	Moderate
Note: MINERALIZATION TGLs = 10		Mineralization	Multifocal, Moderate
Intestine Large	Colon	Mineralization	Multifocal, Moderate
Note: MINERALIZATION TGLs = 7			
Islets, Pancreatic		Hyperplasia	Focal, Mild
Kidney	Cortex	Cyst	
		Mineralization	Diffuse, Moderate
[Mineralization TGLS = 4]		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4,5]			
Liver	Biliar Tract	Proliferation	Mild
Lung		Mineralization	Multifocal, Marked
Note: MINERALIZATION TGLs = 9			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 36	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 693 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas		Atrophy	Focal, Mild
Parathyroid Gland		Hyperplasia	Marked
Note: HYPERPLASIA TGLs = 11			
Prostate		Inflammation	Suppurative, Acute, Mild
Stomach	Forestomach	Mineralization	Diffuse, Moderate
	Glandular	Mineralization	Diffuse, Marked
Note: MINERALIZATION TGLs = 6 [Mineralization TGLS = 6]			
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 671

DOSE: UNTREATD CONTROL

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	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
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Preputial Gland	Prostate
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Multifocal, Moderate
Bone		Osteosarcoma	
[Osteosarcoma TGLS = 3]			
Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	
Note: THROMBUS	TGLs = 7		
Intestine Large	Colon	Parasite Metazoan	
Kidney		Nephropathy	Chronic, Marked
Liver		Hepatocellular Carcinoma	
		Vacuolization Cytoplasmic	Diffuse, Moderate
[Hepatocellular Carcinoma TGLS = 2]			
[Vacuolization Cytoplasmic TGLS = 5]			
Lung		Congestion	Moderate
		Osteosarcoma	Metastatic (Bone)
Note: CONGESTION	TGLs = 6		
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1]			
Pituitary Gland	Pars Distalis	Cyst	
Note: CYST	TGLs = 8		
Spleen		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Spinal Cord
Thyroid Gland

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Preputial Gland
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Liver
Parathyroid Gland
Prostate
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Peripheral Nerve
Skin
Thymus

MISSING

Salivary Glands

OBSERVATIONS

Heart
Kidney
Lung
Lymph Node
Nose

Spleen
[Fibrosis TGLS = 2]
Testes
[Adenoma TGLS = 1]

Mandibular

Respirat Epith

Interstit Cell

Cardiomyopathy
Nephropathy
Infiltration Cellular
Ectasia
Foreign Body
Fungus
Inflammation
Metaplasia
Fibrosis

Adenoma

Mild
Chronic, Mild
Histiocyte, Multifocal, Mild
Mild
Moderate
Moderate
Suppurative, Acute, Mild
Squamous, Moderate
Focal, Moderate

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Blood	Bone
Bone Marrow	Ear	Epididymis	Esophagus
Eye	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	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Peripheral Nerve	Preputial Gland
Salivary Glands	Seminal Vesicle	Skin	Spinal Cord
Spleen	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Brain		Compression	Mild
Note: COMPRESSION	TGLs = 12		
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 7]			
Liver		Granuloma	Multifocal, Mild
	Biliar Tract	Proliferation	Mild
		Vacuolization Cytoplasmic	Focal, Mild
		Cyst	
Mammary Gland	Duct		
[Cyst TGLS = 3]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 11		
Note: ADENOMA	TGLs = 11		
Prostate		Inflammation	Suppurative, Acute, Mild
Stomach	Glandular	Edema	Moderate
	Forestomach	Hyperkeratosis	Mild
	Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Chronic, Marked
	Forestomach	Perforation	Marked
	Forestomach	Ulcer	Multiple, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 5

SEX: Male

DAY ON TEST: 637

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 8]

[Perforation TGLS = 9]

Testes

Atrophy

Mild

[Atrophy TGLS = 5]

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 695

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Islets, Pancreatic		Carcinoma	
Kidney		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 8			
Liver		Clear Cell Focus	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
Note: PROLIFERATION TGLs = 11			
[Clear Cell Focus TGLS = 12]			
[Necrosis TGLS = 11]			
[Proliferation TGLS = 11]			
Lung		Hemorrhage	Multifocal, Moderate
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 13			
Lymph Node	Mandibular	Ectasia	Moderate
	Mediastinal	Ectasia	Moderate
	Mandibular	Leukemia Mononuclear	
Note: ECTASIA TGLs = 14			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 695

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mammary Gland

Duct

Cyst

[Cyst TGLS = 3]

Pancreas

Atrophy

Focal, Moderate

[Atrophy TGLS = 6]

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 7]

Testes

Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 4]

Atrophy

Moderate

[Atrophy TGLS = 5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Mammary Gland	Pituitary Gland	Prostate
Salivary Glands	Peripheral Nerve	Spleen	Stomach - Forestomach
Stomach - Glandular	Spinal Cord	Trachea	Urinary Bladder
	Thyroid Gland		

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Granuloma	Multifocal, Minimal
	Biliar Tract	Proliferation	Minimal
Preputial Gland		Adenoma	
	Duct	Cyst	
	[Adenoma TGLS = 2]		
	[Cyst TGLS = 2]		
Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 1]		
Testes	Interstit Cell	Adenoma	Multiple
	[Adenoma TGLS = 3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Ear	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	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Peripheral Nerve	Preputial Gland
Prostate	Salivary Glands	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Multiple
	Biliar Tract	Proliferation	Moderate
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 1]			
Spleen		Fibrosis	Focal, Mild
[Fibrosis TGLS = 3]			
Testes	Interstitial Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 651

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Focal, Mild
		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
[Angiectasis TGLS = 6]			
[Necrosis TGLS = 6]			
[Proliferation TGLS = 6]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7			
Lymph Node	Mandibular	Ectasia	Mild
Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1]			
Spleen		Fibrosis	Focal, Marked
		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 2			
[Leukemia Mononuclear TGLS = 5]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 651

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Spinal Cord	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Mixed Cell Focus	
	Biliar Tract	Proliferation	Minimal
		Vacuolization Cytoplasmic	Focal, Mild
[Vacuolization Cytoplasmic TGLS = 3]			
Nose		Fungus	Mild
		Inflammation	Suppurative, Acute, Mild
Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1]			
Stomach	Glandular	Inflammation	Chronic, Diffuse, Moderate
Testes		Atrophy	Mild
[Atrophy TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 5

SEX: Male

DAY ON TEST: 496

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Ear
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Peripheral Nerve
Salivary Glands
Stomach - Glandular

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Skin
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Preputial Gland
Spinal Cord
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Prostate
Spleen
Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Brain

Compression
Schwannoma Malignant

Marked

Note: BRAIN- SCHWANNOMA-MAL; RARE TUMOR

[Compression TGLS = 4]

[Schwannoma Malignant TGLS = 3]

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Chronic, Mild

Liver

Biliar Tract

Proliferation

Marked

Mammary Gland

Duct

Cyst

Stomach

Forestomach

Hyperplasia

Moderate

Testes

Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 647

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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 - Mesenteric	Nose
Pancreas	Parathyroid Gland	Peripheral Nerve	Prostate
Salivary Glands	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Tooth	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 9			
Liver		Angiectasis	Focal, Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
[Angiectasis TGLs = 11]			
[Leukemia Mononuclear TGLs = 3,11,12]			
[Necrosis TGLs = 12]			
[Proliferation TGLs = 12]			
Lymph Node	Mediastinal	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Cyst	
Preputial Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 4			
Skin		Hyperkeratosis	Focal, Mild
[Hyperkeratosis TGLs = 1]			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 40	TRT#: 1 DOSE: UNTREATD CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 647 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 8			
Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
[Adenoma TGLS = 7] [Atrophy TGLS = 6]			
Thyroid Gland	C Cell	Hyperplasia	Moderate
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 2]			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 3

SEX: Male

DAY ON TEST: 671

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lymph Node - Mesenteric	Mammary Gland
Nose	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Preputial Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Testes	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
	Medulla	Pheochromocytoma Malignant	
Bone		Fibrous Osteodystrophy	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3,4,5]			
Liver	Biliar Tract	Proliferation	Mild
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 1]			
Pancreas		Atrophy	Focal, Mild
		Hyperplasia	Focal, Mild
Pharynx		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 7]			
Spleen		Fibrosis	Focal, Moderate
[Fibrosis TGLS = 2]			
Stomach	Glandular	Mineralization	Diffuse, Moderate
	Forestomach	Ulcer	Marked
Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 5

SEX: Male

DAY ON TEST: 625

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Prostate
Spleen
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Peripheral Nerve
Salivary Glands
Stomach - Glandular

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Pituitary Gland
Skin
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Mammary Gland
Preputial Gland
Spinal Cord
Trachea

MISSING

Parathyroid Gland

OBSERVATIONS

Heart
Kidney
Liver
 Note: CARCINOMA TGLs = 4
 Note: CARCINOMA,C-CELL
Lung
 Note: CARCINOMA TGLs = 6
 Note: CARCINOMA, C-CELL
Lymph Node
 Note: TGL-1 MANDIBULAR NODE
 Note: TGL-2 DEEP CERVICAL NODE
 Note: CARCINOMA, C-CELL
 Note: CARCINOMA TGLs = 1,2
Pancreas
Stomach
Testes
 Note: ADENOMA TGLs = 3
Thyroid Gland

Mandibular

C Cell

Cardiomyopathy
Nephropathy
Carcinoma

Carcinoma
Inflammation

Carcinoma

Atrophy
Inflammation
Adenoma

Carcinoma

Mild
Chronic, Moderate
Metastatic (Thyroid Gland)

Metastatic (Thyroid Gland)
Suppurative, Acute, Multifocal, Moderate

Metastatic (Thyroid Gland)

Focal, Minimal
Suppurative, Acute, Mild
Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 5

SEX: Male

DAY ON TEST: 625

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 5

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 564

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Peripheral Nerve
Spinal Cord
Testes
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Liver
Nose
Pituitary Gland
Spleen
Thymus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Preputial Gland
Stomach - Forestomach
Thyroid Gland

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Salivary Glands
Stomach - Glandular
Trachea

OBSERVATIONS

Brain

Heart
Kidney
Lung
 Note: SQUAM CEL CARC TGLs = 3
Prostate
Skin
 Note: SQUAM CEL CARC TGLs = 2

Hemorrhage
Squamous Cell Carcinoma
Cardiomyopathy
Nephropathy
Squamous Cell Carcinoma

Inflammation
Squamous Cell Carcinoma

Multifocal, Moderate
Metastatic (Skin)
Mild
Chronic, Minimal
Metastatic (Skin)

Suppurative, Acute, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 3

SEX: Male

DAY ON TEST: 664

DOSE: 0.01%

DISP: Natural Death

HISTO:

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
Lymph Node - Mesenteric	Mammary Gland	Nose	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Pheochromocytoma Benign	Multiple
Blood Vessel	Aorta	Mineralization	Diffuse, Marked
Note: MINERALIZATION TGLs = 10			
Bone		Fibrous Osteodystrophy	Marked
Ductus Deferens		Mineralization	Diffuse, Marked
[Mineralization TGLS = 4]			
Eye	Retina	Degeneration	Mild
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Marked
		Mineralization	Multifocal, Marked
Kidney		Mineralization	Diffuse, Marked
		Nephropathy	Chronic, Marked
[Mineralization TGLS = 6]			
[Nephropathy TGLS = 6,7]			
Liver	Biliar Tract	Granuloma	Multifocal, Moderate
		Proliferation	Mild
Lung		Mineralization	Multifocal, Moderate
[Mineralization TGLS = 11]			
Pancreas		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 41	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Natural Death	DAY ON TEST: 664 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 9] Parathyroid Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 12] Spleen		Mineralization	Focal, Moderate
[Mineralization TGLS = 5] Stomach	Forestomach Glandular	Mineralization Mineralization	Diffuse, Marked Diffuse, Marked
[Mineralization TGLS = 8] [Mineralization TGLS = 8] Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
[Adenoma TGLS = 3] [Atrophy TGLS = 2]			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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	Islets, Pancreatic	Lymph Node - Mesenteric
Mammary Gland	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Intestine Large - Colon

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Marked
Heart		Cardiomyopathy	Mild
Intestine Small	Jejunum	Leiomyosarcoma	
[Leiomyosarcoma TGLS = 2]			
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Marked
Liver		Angiectasis	Multifocal, Mild
		Basophilic Focus	Multiple
		Degeneration	Cystic, Moderate
[Developmental Malformation TGLS = 3]		Developmental Malformation	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 700

DOSE: UNTREATD CONTROL

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Liver	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Prostate	Salivary Glands	Spinal Cord
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Small	Jejunum	Thrombosis	
[Thrombosis TGLS = 3]			
Kidney		Nephropathy	Chronic, Minimal
Mammary Gland	Duct	Cyst	
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pancreas		Atrophy	Focal, Mild
Preputial Gland	Duct	Adenoma	
		Cyst	
Note: CYST TGLs = 4			
Note: ADENOMA TGLs = 4			
Skin		Hemangioma	
[Hemangioma TGLS = 1]			
Stomach	Glandular	Mineralization	Diffuse, Mild
Testes	Interstit Cell	Adenoma	Multiple
Note: ADENOMA TGLs = 5			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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	Peripheral Nerve
Preputial Gland	Prostate	Salivary Glands	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Note: NEPHROPATHY	TGLs = 3		
Liver		Angiectasis	Focal, Mild
	Biliar Tract	Proliferation	Moderate
Lymph Node	Mesenteric	Ectasia	Moderate
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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
Liver	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Peripheral Nerve	Pituitary Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland Note: PHEOCHROM BGN TGLs = 5	Medulla	Pheochromocytoma Benign	
Blood Vessel Note: MINERALIZATION TGLs = 12	Aorta	Mineralization	Diffuse, Marked
Bone		Fibrous Osteodystrophy	Marked
Heart Note: MINERALIZATION TGLs = 13		Cardiomyopathy	Mild
Kidney		Mineralization	Multifocal, Marked
 Note: NEPHROPATHY TGLs = 6,9 [Mineralization TGLS = 8] [Nephropathy TGLS = 7]	Cortex	Cyst	
		Mineralization	Diffuse, Marked
		Nephropathy	Chronic, Marked
Lung		Mineralization	Multifocal, Moderate
Mammary Gland [Cyst TGLS = 1]	Duct	Cyst	
Pancreas		Atrophy	Focal, Mild
	Artery	Mineralization	Multifocal, Marked
	Artery	Thrombosis	Marked
Note: THROMBUS TGLs = 10 [Thrombosis TGLS = 10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 42	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 661 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Parathyroid Gland		Hyperplasia	Marked
Preputial Gland		Adenoma	
	Duct	Cyst	
[Adenoma TGLS = 2]			
Stomach	Glandular	Mineralization	Diffuse, Marked
Testes	Interstit Cell	Adenoma	Multiple
		Atrophy	Moderate
Note: ATROPHY TGLs = 3			
[Atrophy TGLS = 4]			

PRIMARY CAUSE OF DEATH

-

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

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:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Peripheral Nerve
Spinal Cord
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Adrenal Gland
Heart
Kidney
Liver

Medulla

Pheochromocytoma Benign
Cardiomyopathy
Nephropathy
Clear Cell Focus
Degeneration

Minimal
Chronic, Moderate
Multiple
Cystic, Mild

Biliar Tract

Proliferation
Adenoma
Inflammation

Minimal

Preputial Gland
Prostate
Testes

Interstit Cell

Adenoma

Suppurative, Acute, Minimal
Multiple

[Adenoma TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Ear
Epididymis	Esophagus	Intestine Large - Cecum	Intestine Large - Colon
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Peripheral Nerve	Preputial Gland	Prostate	Salivary Glands
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Marked
Liver		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Seminal Vesicle		Dilatation	Mild
Note: DILATATION TGLs = 3			
Skin		Hyperkeratosis	Focal, Moderate
		Hyperplasia	Focal, Moderate
Note: HYPERPLASIA TGLs = 1			
Note: HYPERKERATOSIS TGLs = 1			
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA TGLs = 2			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 5

SEX: Male

DAY ON TEST: 608

DOSE: 0.005%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Epididymis	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Nose	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Skin	Spinal Cord	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3]			
[Leukemia Mononuclear TGLS = 3]			
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Intestine Small	Jejunum	Adenocarcinoma	
[Adenocarcinoma TGLS = 5]			
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
[Leukemia Mononuclear TGLS = 6]			
[Necrosis TGLS = 6]			
[Proliferation TGLS = 6]			
Lung		Hemorrhage	Multifocal, Moderate
		Leukemia Mononuclear	
[Hemorrhage TGLS = 7]			
[Leukemia Mononuclear TGLS = 7]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 43	TRT#: 5 DOSE: 0.005%	SEX: Male DISP: Natural Death	DAY ON TEST: 608 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Stomach	Forestomach	Ulcer	Moderate
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

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:

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	Liver	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Prostate	Salivary Glands
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Marked
Note: NEPHROPATHY TGLs = 4			
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 5]			
[Angiectasis TGLS = 5]			
Preputial Gland		Adenoma	
	Duct	Cyst	
Note: ADENOMA TGLs = 1			
[Adenoma TGLS = 1]			
Testes	Interstitial Cell	Adenoma	
		Atrophy	Mild
	Interstitial Cell	Hyperplasia	Mild
Note: ATROPHY TGLs = 2			
Note: ADENOMA TGLs = 3			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Epididymis
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Peripheral Nerve	Preputial Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Intestine Small - Duodenum

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Moderate
	Medulla	Hyperplasia	Focal, Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver	Biliar Tract	Proliferation	Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	[Adenoma TGLS = 1]		
	[Angiectasis TGLS = 1]		
Seminal Vesicle		Hyperplasia	Moderate
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Ear
Intestine Large - Colon
Intestine Small - Jejunum
Pancreas
Salivary Glands
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Parathyroid Gland
Skin
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mesenteric
Peripheral Nerve
Spinal Cord
Trachea

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Nose
Preputial Gland
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Bone Marrow
Heart
Kidney
Liver

Leukemia Mononuclear
Cardiomyopathy
Nephropathy
Angiectasis
Degeneration
Leukemia Mononuclear
Necrosis
Proliferation

Moderate
Chronic, Mild
Focal, Mild
Cystic, Moderate
Mild
Marked

Centrilobular
Biliar Tract

[Leukemia Mononuclear TGLS = 4]
[Necrosis TGLS = 4]
[Proliferation TGLS = 4]

Lung

Alveolar Epith

Hyperplasia
Leukemia Mononuclear

Focal, Moderate

Note: HYPERPLASIA TGLs = 7

Lymph Node
Mammary Gland
Pituitary Gland

Mandibular
Duct
Pars Distalis
Pars Distalis

Ectasia
Cyst
Adenoma
Angiectasis

Mild
Moderate

Note: ADENOMA TGLs = 6

Note: ANGIECTASIS TGLs = 6

Prostate
Spleen

Inflammation
Leukemia Mononuclear

Suppurative, Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3]

Stomach

Glandular

Edema

Mild

Testes

Interstit Cell

Adenoma

Multiple

Atrophy

Mild

[Adenoma TGLS = 2]

[Atrophy TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Mammary Gland	Nose	Parathyroid Gland	Peripheral Nerve
Preputial Gland	Prostate	Salivary Glands	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney	Renal Tubule	Carcinoma	
	Cortex	Cyst	
		Nephropathy	Chronic, Marked
			[Cyst TGLS = 5]
			[Nephropathy TGLS = 4]
Liver		Angiectasis	Focal, Moderate
		Clear Cell Focus	
			[Angiectasis TGLS = 6]
			[Clear Cell Focus TGLS = 6]
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
Skin	Sebaceous GI	Adenoma	
		Keratoacanthoma	
			[Adenoma TGLS = 2]
			[Keratoacanthoma TGLS = 1]
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	Multiple
			[Adenoma TGLS = 3]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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 - Mesenteric	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Preputial Gland	Prostate
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	Multiple
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY TGLs = 5 [Cyst TGLs = 3,4]			
Liver		Developmental Malformation	
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Moderate
[Developmental Malformation TGLs = 6] [Leukemia Mononuclear TGLs = 7] [Proliferation TGLs = 7]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
Spleen		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
[Fibrosis TGLs = 2]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLs = 1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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 Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Peripheral Nerve
Preputial Gland	Prostate	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Eye [Degeneration TGLS = 1]	Retina	Degeneration	Mild
Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney [Nephropathy TGLS = 5]	Renal Tubule	Adenoma	Chronic, Marked
		Nephropathy	
Pancreas		Atrophy	Focal, Mild
Parathyroid Gland		Hyperplasia	Mild
Pituitary Gland [Adenoma TGLS = 6] [Angiectasis TGLS = 6]	Pars Distalis Pars Distalis	Adenoma	Moderate
		Angiectasis	
Stomach	Glandular	Mineralization	Diffuse, Mild
Testes [Adenoma TGLS = 3] [Atrophy TGLS = 2]	Interstit Cell	Adenoma	Multiple
		Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Spinal Cord
Thymus

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

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Peripheral Nerve
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Lung
Pancreas
Testes

[Adenoma TGLS = 1]

Biliar Tract
Alveolar Epith

Interstit Cell

Cardiomyopathy
Nephropathy
Clear Cell Focus
Proliferation
Hyperplasia
Hyperplasia
Adenoma

Moderate
Chronic, Moderate

Mild
Focal, Mild
Focal, Mild
Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 3

SEX: Male

DAY ON TEST: 637

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Esophagus
Intestine Small - Ileum
Lymph Node - Mesenteric
Peripheral Nerve
Salivary Glands
Spleen

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Pituitary Gland
Seminal Vesicle
Thyroid Gland

Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Preputial Gland
Skin
Trachea

Epididymis
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Prostate
Spinal Cord
Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Adrenal Gland
Blood Vessel
 [Mineralization TGLS = 11]
Bone
Ductus Deferens
 [Mineralization TGLS = 4]
Eye
 [Degeneration TGLS = 1]
Heart
 [Mineralization TGLS = 13]
Intestine Large
 [Mineralization TGLS = 9]
Kidney
 [Mineralization TGLS = 6]
 [Nephropathy TGLS = 6]
Liver
Lung
Parathyroid Gland

Medulla
Aorta

Retina

Colon

Pheochromocytoma Benign
Mineralization

Fibrous Osteodystrophy
Mineralization

Degeneration

Cardiomyopathy
Mineralization

Mineralization
Nephropathy

Angiectasis
Mineralization
Hyperplasia

Diffuse, Marked

Marked
Diffuse, Marked

Mild

Marked
Multifocal, Moderate

Multifocal, Mild

Diffuse, Marked
Chronic, Marked

Focal, Mild
Multifocal, Moderate
Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 46	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 637 HISTO:
----------------------	--------------------------------------	---	--

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 16] Skeletal Muscle		Mineralization	Multifocal, Moderate
[Mineralization TGLS = 14,10] Stomach	Forestomach Glandular	Mineralization Mineralization	Diffuse, Marked Diffuse, Marked
[Mineralization TGLS = 8,17] [Mineralization TGLS = 8,17] Testes	Interstit Cell	Adenoma Atrophy	Multiple Moderate
[Adenoma TGLS = 2] [Atrophy TGLS = 3] Zymbal's Gland		Adenoma	
Note: ADENOMA TGLs = 15			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Peripheral Nerve
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Pituitary Gland
Spinal Cord
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Lung
Nose
Preputial Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney
Liver
Pancreas
Prostate
Testes
[Adenoma TGLS = 1]

Interstitial Cell

Cardiomyopathy
Nephropathy
Clear Cell Focus
Atrophy
Inflammation
Adenoma

Moderate
Chronic, Mild
Focal, Mild
Suppurative, Acute, Mild
Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 675

DOSE: UNTREATD CONTROL

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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
Lymph Node - Mesenteric	Mammary Gland	Nose	Peripheral Nerve
Pituitary Gland	Preputial Gland	Salivary Glands	Skin
Spinal Cord	Spleen	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 1]			
Blood Vessel	Aorta	Mineralization	Diffuse, Marked
Bone		Fibrous Osteodystrophy	Moderate
Heart		Cardiomyopathy	Moderate
		Mineralization	Multifocal, Marked
Intestine Large	Colon	Mineralization	Multifocal, Moderate
Kidney		Mineralization	Diffuse, Marked
		Nephropathy	Chronic, Marked
[Mineralization TGLS = 3]			
[Nephropathy TGLS = 4]			
Liver	Biliar Tract	Proliferation	Mild
Lung		Congestion	Mild
		Mineralization	Multifocal, Mild
[Congestion TGLS = 6]			
Pancreas	Artery	Mineralization	Multifocal, Marked
Parathyroid Gland		Adenoma	
		Hyperplasia	Marked
Prostate		Inflammation	Suppurative, Acute, Marked
Stomach	Artery	Mineralization	Diffuse, Marked
	Forestomach	Mineralization	Diffuse, Marked
	Glandular	Mineralization	Diffuse, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 675

DOSE: UNTREATD CONTROL

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Testes

Interstit Cell

Adenoma

Multiple

Mineralization

Focal, Mild

[Adenoma TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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
Nose	Pancreas	Peripheral Nerve	Preputial Gland
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Testes	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Brain		Compression	Mild
Note: COMPRESSION	TGLs = 10		
Heart		Cardiomyopathy	Mild
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Moderate
Note: NEPHROPATHY	TGLs = 5		
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Marked
Note: PROLIFERATION	TGLs = 6,7		
Note: NECROSIS	TGLs = 6,7		
Note: LEUKEMIA MONUC	TGLs = 6,7		
Lung		Hemorrhage	Multifocal, Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 8		
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3

Mammary Gland

Duct

Cyst

Fibroadenoma

[Cyst TGLS = 1]

Pituitary Gland

Pars Distalis

Adenoma

Angiectasis

Marked

Note: ADENOMA TGLs = 9

Note: ANGIECTASIS TGLs = 9

Prostate

Inflammation

Suppurative, Acute, Mild

Note: INFLAMMATION TGLs = 2

Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 5

SEX: Male

DAY ON TEST: 593

DOSE: 0.005%

DISP: Natural Death

HISTO:

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	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Parathyroid Gland	Peripheral Nerve	Preputial Gland
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney	Cortex	Cyst	
		Nephropathy	Chronic, Mild
Liver	Biliar Tract	Leukemia Mononuclear Proliferation	Marked
	[Leukemia Mononuclear TGLS = 4]		
Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5]		
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 1]		
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hemorrhage	Marked
	Note: ADENOMA MAY BE OBLITERATED BY INFARCTION		
	[Adenoma TGLS = 6]		
	[Hemorrhage TGLS = 6]		
Prostate		Inflammation	Suppurative, Acute, Moderate
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3]		
Testes		Atrophy	Mild
	[Atrophy TGLS = 2]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 5

SEX: Male

DAY ON TEST: 593

DOSE: 0.005%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Nose
Salivary Glands
Spleen
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Small - Duodenum
Lymph Node - Mandibular
Parathyroid Gland
Seminal Vesicle
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Mesenteric
Peripheral Nerve
Skin
Stomach - Glandular

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Mammary Gland
Preputial Gland
Spinal Cord
Thymus

OBSERVATIONS

Heart
Intestine Large
Kidney

Rectum
Cortex

Cardiomyopathy
Parasite Metazoan
Cyst
Nephropathy

Moderate
Mild
Chronic, Marked

Note: CYST TGLs = 5
[Nephropathy TGLS = 3]

Liver

Biliar Tract

Angiectasis
Proliferation
Infiltration Cellular
Atrophy
Hyperplasia
Inflammation
Adenoma

Focal, Mild
Mild
Histiocyte, Multifocal, Mild
Focal, Mild
Focal, Mild
Suppurative, Acute, Mild
Multiple

Lung
Pancreas
Pituitary Gland
Prostate
Testes

Pars Distalis

Interstit Cell

[Adenoma TGLS = 1]

Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLS = 4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 3

SEX: Male

DAY ON TEST: 581

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Brain	Ear
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
Peripheral Nerve	Pituitary Gland	Preputial Gland	Prostate
Salivary Glands	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Leukemia Mononuclear	
	Biliar Tract	Necrosis	Mild
		Proliferation	Moderate
	[Leukemia Mononuclear TGLS = 7]		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6]		
Mesentery	Fat	Necrosis	Focal, Moderate
	[Necrosis TGLS = 2]		
Pancreas		Atrophy	Focal, Minimal
Skin		Inflammation	Suppurative, Acute, Focal, Marked
	Note: INFLAMMATION TGLs = 1		
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3,4,5]		
Testes	Interstit Cell	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 3

SEX: Male

DAY ON TEST: 581

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 5

SEX: Male

DAY ON TEST: 580

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Mammary Gland	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Preputial Gland
Prostate	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver	Centrilobular	Leukemia Mononuclear	
		Necrosis	Mild
	Biliar Tract	Neoplastic Nodule	
		Proliferation	Marked
[Leukemia Mononuclear TGLS = 6]			
[Neoplastic Nodule TGLS = 7]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8,9]			
Lymph Node	Mediastinal	Sarcoma	
[Sarcoma TGLS = 10]			
Spleen		Fibrosis	Focal, Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 5]			
[Leukemia Mononuclear TGLS = 4]			
Testes	Interstit Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 538

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Minimal
Liver	Biliar Tract	Leukemia Mononuclear	
		Proliferation	Mild
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5]			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1]			
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Moderate
Pancreas		Atrophy	Focal, Moderate
		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3]			
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: ADENOMA	TGLs = 2		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Peripheral Nerve
Spleen
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Nose
Pituitary Gland
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

MISSING

Preputial Gland

OBSERVATIONS

Heart
Kidney
Liver

Prostate
Skin

Biliar Tract

Cardiomyopathy
Nephropathy
Granuloma
Proliferation
Inflammation
Foreign Body
Inflammation

Moderate
Chronic, Moderate
Multifocal, Minimal
Mild
Suppurative, Acute, Mild
Mild
Granulomatous, Focal, Mild

Note: SKIN- INFLAMMATION ON FACE

Testes

Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Salivary Glands
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Epididymis
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Peripheral Nerve
Skin
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Liver
Mammary Gland
Preputial Gland
Spinal Cord
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Nose
Prostate
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Kidney
 [Nephropathy TGLS = 4]
Pancreas
Pituitary Gland
 Pars Distalis
 Pars Distalis
 [Adenoma TGLS = 5]
 [Angiectasis TGLS = 5]
Testes
 [Adenoma TGLS = 1]

Pars Distalis
Pars Distalis

Interstit Cell

Cardiomyopathy
Nephropathy

Atrophy
Adenoma
Angiectasis

Adenoma

Mild
Chronic, Marked

Focal, Mild
Mild

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Mammary Gland
Nose	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 2]			
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Angiectasis	Multifocal, Moderate
	Biliar Tract	Leukemia Mononuclear	
		Proliferation	Marked
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3,4			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 3

SEX: Male

DAY ON TEST: 683

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Mammary Gland	Nose	Peripheral Nerve
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Hyperplasia	Focal, Mild
[Degeneration TGLS = 4]			
Blood Vessel	Aorta	Mineralization	Diffuse, Marked
Bone		Fibrous Osteodystrophy	Marked
Heart		Cardiomyopathy	Marked
		Mineralization	Multifocal, Marked
Kidney	Cortex	Cyst	
		Mineralization	Diffuse, Marked
		Nephropathy	Chronic, Marked
[Mineralization TGLS = 5]			
[Nephropathy TGLS = 5]			
Liver		Angiectasis	Focal, Mild
Lung		Mineralization	Multifocal, Moderate
Pancreas		Atrophy	Focal, Mild
	Artery	Mineralization	Multifocal, Marked
	Artery	Thrombosis	Marked
Note: THROMBUS TGLs = 6			
[Thrombosis TGLS = 6]			
Parathyroid Gland		Hyperplasia	Moderate
Spleen		Hematopoietic Cell Proliferation	Moderate
Stomach	Forestomach	Mineralization	Diffuse, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50	TRT#: 3 DOSE: 0.01%	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 683 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Testes	Glandular Interstit Cell	Mineralization Adenoma Atrophy	Diffuse, Marked Multiple Marked
[Adenoma TGLS = 2] [Atrophy TGLS = 1]			
Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 5

SEX: Male

DAY ON TEST: 722

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Lymph Node - Mesenteric	Mammary Gland	Nose	Parathyroid Gland
Peripheral Nerve	Preputial Gland	Prostate	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7]			
[Leukemia Mononuclear TGLS = 7]			
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Marked
[Leukemia Mononuclear TGLS = 10]			
[Proliferation TGLS = 10]			
Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5,4]			
Testes	Interstit Cell	Adenoma	Multiple
[Adenoma TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 2

SEX: Female

DAY ON TEST: 703

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Clitoral Gland	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Compression	
[Compression TGLS = 12]			
Kidney		Nephropathy	Chronic, Mild
[Nephropathy TGLS = 8]			
Liver		Developmental Malformation	
	Centrilobular	Leukemia Mononuclear	
	Biliar Tract	Necrosis	Mild
		Proliferation	Marked
		Regeneration	Moderate
[Developmental Malformation TGLS = 4]			
[Leukemia Mononuclear TGLS = 9,10]			
[Necrosis TGLS = 9,10]			
[Proliferation TGLS = 9,10]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 2	SEX: Female	DAY ON TEST: 703
	DOSE: UNTREATD CONTROL	DISP: Moribund Sacrifice	HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 11]			
[Angiectasis TGLS = 11]			
[Pigmentation TGLS = 11]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7]			
Stomach	Forestomach	Hyperplasia	Mild
Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 4

SEX: Female

DAY ON TEST: 727

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Vagina			

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
[Leukemia Mononuclear TGLS = 8,9]			
Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA TGLs = 10			
Note: ANGIECTASIS TGLs = 10			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7]			
Uterus		Schwannoma Malignant	
Note: SCHWANNOMA MAL TGLs = 3,4,5			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 4

SEX: Female

DAY ON TEST: 727

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 6 DOSE: 0.005%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO:
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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	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Eye	Retina	Cataract	Marked
		Degeneration	Marked
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Pituitary Gland	Pars Distalis	Cyst	
Uterus		Adenocarcinoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2

TRT#: 2

SEX: Female

DAY ON TEST: 591

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	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	Lymph Node - Mesenteric	Mammary Gland	Nose
Pancreas	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4]		
	[Leukemia Mononuclear TGLS = 4]		
Brain		Hemorrhage	Multifocal, Moderate
		Leukemia Mononuclear	
		[Hemorrhage TGLS = 6]	
Eye		Cataract	Marked
	Retina	Degeneration	Marked
		[Cataract TGLS = 1]	
		[Degeneration TGLS = 1]	
Kidney		Leukemia Mononuclear	
		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5]	
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2

TRT#: 2

SEX: Female

DAY ON TEST: 591

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 4 DOSE: 0.01%	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 407 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Small - Jejunum

OBSERVATIONS

Eye	Antr Chamber	Fibrosis	Moderate
Note: FIBROSIS TGLs = 4			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	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
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3			
Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 2]			
[Fibroadenoma TGLS = 4]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 5]			
[Angiectasis TGLS = 5]			
Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 2 DOSE: UNTREATD CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 647 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Liver	Centrilobular	Leukemia Mononuclear	
	Biliar Tract	Necrosis	Moderate
		Proliferation	Marked
Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 4 DOSE: 0.01%	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 530 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Mammary Gland	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Skin
Spinal Cord	Stomach - Forestomach	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Lymph Node - Mandibular	Salivary Glands	Thymus	
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OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Multifocal, Mild
	Medulla	Necrosis	Multifocal, Mild
Clitoral Gland	Duct	Adenoma	
		Cyst	
[Adenoma TGLS = 1]			
[Cyst TGLS = 1]			
Kidney		Nephropathy	Chronic, Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2]			
Lymph Node	Mesenteric	Leukemia Mononuclear	
Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Stomach	Glandular	Edema	Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3

TRT#: 4

SEX: Female

DAY ON TEST: 530

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 6 DOSE: 0.005%	SEX: Female DISP: Natural Death	DAY ON TEST: 544 HISTO:
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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 - Ileum	Islets, Pancreatic	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Salivary Glands	Skin	Stomach - Glandular	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Intestine Small - Jejunum

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Marked
		Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Diffuse, Moderate
		[Leukemia Mononuclear TGLS = 3]	
Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4]	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		[Cyst TGLS = 1]	
Spinal Cord		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 2]	
Stomach	Forestomach	Hyperkeratosis	Mild
	Forestomach	Hyperplasia	Mild
	Forestomach	Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3

TRT#: 6

SEX: Female

DAY ON TEST: 544

DOSE: 0.005%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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 - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Parathyroid Gland

OBSERVATIONS

Clitoral Gland		Hyperplasia	Mild
Heart		Cardiomyopathy	Minimal
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
[Leukemia Mononuclear TGLS = 3]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Ectasia	Mild
	Mandibular	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2]			
Uterus	Cervix	Abscess	Marked
[Abscess TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
	Biliar Tract	Proliferation	Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 1]			
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 2			
[Angiectasis TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 6

SEX: Female

DAY ON TEST: 481

DOSE: 0.005%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	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	Lymph Node - Mesenteric	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Brain		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Moderate
	[Leukemia Mononuclear TGLS = 4]		
	[Necrosis TGLS = 5]		
Lung		Leukemia Mononuclear	
	Note: LEUKEMIA MONUC TGLs = 6		
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 1]		
Ovary		Leukemia Mononuclear	
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2]		
Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 2	SEX: Female	DAY ON TEST: 582
	DOSE: UNTREATD CONTROL	DISP: Moribund Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Nose	Ovary	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ADENOMA TGLs = 5			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2]			
Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5

TRT#: 4

SEX: Female

DAY ON TEST: 724

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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
Kidney	Nose	Ovary	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5]		
	[Leukemia Mononuclear TGLS = 5]		
Heart		Cardiomyopathy	Mild
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Marked
	[Leukemia Mononuclear TGLS = 6,7,8]		
	[Necrosis TGLS = 6,7,8]		
	[Proliferation TGLS = 6,7,8]		
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 2]		
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5

TRT#: 4

SEX: Female

DAY ON TEST: 724

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Thymus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Eye	Retina	Cataract	Marked
		Degeneration	Marked
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Focal, Mild
		Basophilic Focus	Multiple
		Degeneration	Cystic, Mild
		Developmental Malformation	Mild
		Granuloma	Multifocal, Mild
		Neoplastic Nodule	
	Biliar Tract	Proliferation	Marked
Lung		Infiltration Cellular	Histiocyte, Multifocal, Mild
Mammary Gland	Duct	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreas

Atrophy

Focal, Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: UNTREATD CONTROL	DISP: Terminal Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Ear	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[Cataract TGLS = 1]		
	[Degeneration TGLS = 1]		
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Uterus	Cervix	Abscess	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 4 DOSE: 0.01%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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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
Kidney	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Mammary Gland	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1]			
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	Multiple
		Developmental Malformation	Mild
		Granuloma	Multifocal, Minimal
[Developmental Malformation TGLS = 4]			
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Pituitary Gland	Salivary Glands
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLS = 1]		
	[Degeneration TGLS = 1]		
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
	Biliar Tract	Proliferation	Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
	[Cyst TGLS = 3]		
	[Fibroadenoma TGLS = 2]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7

TRT#: 2

SEX: Female

DAY ON TEST: 722

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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	Islets, Pancreatic
Nose	Ovary	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Brain		Compression	
[Compression TGLS = 11]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 8]			
Liver		Degeneration	Fatty, Multifocal, Marked
	Centrilobular	Leukemia Mononuclear	
[Degeneration TGLS = 1,9]		Necrosis	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 4]			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
[Adenoma TGLS = 10]			
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7	TRT#: 2	SEX: Female	DAY ON TEST: 722
	DOSE: UNTREATD CONTROL	DISP: Moribund Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6]

Thyroid Gland

C Cell

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7	TRT#: 4 DOSE: 0.01%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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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 Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Intestine Large - Rectum

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pharynx		Inflammation	Suppurative, Acute, Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
Tooth	Gingiva	Basosquamous Tumor Malignant	

Note: BASOSQU TM MAL TGLs = 2

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLS = 1]		
	[Degeneration TGLS = 1]		
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Developmental Malformation	Mild
		Granuloma	Multifocal, Mild
	[Developmental Malformation TGLS = 3]		
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 2]		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	[Adenoma TGLS = 4]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 2 DOSE: UNTREATD CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 404 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Salivary Glands	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Hematopoietic Cell Proliferation	Moderate
	Medulla	Hematopoietic Cell Proliferation	Moderate
Liver		Granuloma	Multifocal, Mild
		Hematopoietic Cell Proliferation	Moderate
Lung		Fibrosarcoma	Metastatic (Skin)
Lymph Node		Fibrosarcoma	Metastatic (Skin)
Note: ILIAC NODE;FIBROSARCOMA			
Note: FIBROSARC TGLs = 2			
Mammary Gland		Adenocarcinoma	
		Fibrosarcoma	Metastatic (Skin)
Skin	Subcut Tiss	Fibrosarcoma	
Note: FIBROSARC TGLs = 1			
Spleen		Hematopoietic Cell Proliferation	Moderate
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 4 DOSE: 0.01%	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO:
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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
Kidney	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Cortex	Hyperplasia	Focal, Moderate
Clitoral Gland	Duct	Cyst	
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 1]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 3			
Note: ADENOMA TGLs = 3			
Thyroid Gland	C Cell	Adenoma	
Uterus	Cervix	Abscess	Marked
	Cervix	Cyst	
		Polyp Stromal	

[Polyp Stromal TGLS = 2]

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 6 DOSE: 0.005%	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 685 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Ear
Esophagus	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Trachea
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6]			
[Leukemia Mononuclear TGLS = 6]			
Bone Marrow		Leukemia Mononuclear	
Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1,2]			
Heart		Leukemia Mononuclear	
Liver		Basophilic Focus	Multiple
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
[Leukemia Mononuclear TGLS = 7]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 4]			
[Fibroadenoma TGLS = 3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 6 DOSE: 0.005%	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 685 HISTO:
ORGAN AND ACCOUNTABLE SITE STATUS			
Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5]			
Thymus		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	Multiple
Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 2

SEX: Female

DAY ON TEST: 702

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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 - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Nose
Parathyroid Gland	Peripheral Nerve	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Blood		Leukemia Mononuclear	
Brain		Hemorrhage	Multifocal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 17		
Note: HEMORRHAGE	TGLs = 17		
Heart		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 15		
Kidney		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10		
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
Note: NECROSIS	TGLs = 13		
Note: PROLIFERATION	TGLs = 13		
Note: LEUKEMIA MONUC	TGLs = 13		
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 14		
Lymph Node		Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 16		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9	TRT#: 2	SEX: Female	DAY ON TEST: 702
	DOSE: UNTREATD CONTROL	DISP: Moribund Sacrifice	HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3,4]			
Mammary Gland	Duct	Cyst Fibroadenoma	
Note: CYST TGLs = 6			
[Fibroadenoma TGLS = 1]			
Mesentery		Leukemia Mononuclear	
Ovary		Leukemia Mononuclear	
Pancreas		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12			
Pituitary Gland	Pars Distalis Pars Distalis	Cyst Leukemia Mononuclear	
Note: CYST TGLs = 18			
Salivary Glands		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5			
Spleen		Leukemia Mononuclear Necrosis	Focal, Marked
Note: LEUKEMIA MONUC TGLs = 9			
[Necrosis TGLS = 2]			
Thyroid Gland		Leukemia Mononuclear	
Uterus	Cervix	Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8			
Note: LEUKEMIA MONUC TGLs = 7			

PRIMARY CAUSE OF DEATH -

Animal Note: TISSUE NOS; FLUID FROM THORACIC CAVITY;LEUK MONUC TGL 11

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9	TRT#: 4 DOSE: 0.01%	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 723 HISTO:
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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 - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Clitoral Gland		Abscess	Marked
	Bilateral	Adenoma	
Note: ADENOMA TGLs = 2 [Abscess TGLS = 2]			
Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3]			
Liver		Vacuolization Cytoplasmic	Diffuse, Moderate
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA TGLs = 5 [Adenoma TGLS = 5]			
Stomach	Glandular	Edema	Moderate
	Forestomach	Hyperkeratosis	Moderate
	Forestomach	Hyperplasia	Moderate
	Forestomach	Inflammation	Chronic, Moderate
[Hyperkeratosis TGLS = 4]			
[Hyperplasia TGLS = 4]			
[Inflammation TGLS = 4]			
Tongue		Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 4

SEX: Female

DAY ON TEST: 723

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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 - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Clitoral Gland		Hyperplasia	Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLS = 5]			
[Angiectasis TGLS = 5]			
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 2

SEX: Female

DAY ON TEST: 632

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Peripheral Nerve
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Brain
[Dilatation TGLS = 8]

Latl Ventrl

Dilatation

Mild

Liver
[Developmental Malformation TGLS = 4]
Mammary Gland
[Fibroadenoma TGLS = 1]

Biliar Tract

Basophilic Focus
Clear Cell Focus
Developmental Malformation
Granuloma
Proliferation

Multiple
Mild
Multifocal, Mild
Mild

Pituitary Gland
Uterus
[Polyp Stromal TGLS = 2,3]

Pars Distalis
Pars Distalis

Fibroadenoma
Angiectasis
Cyst
Polyp Stromal

Mild
Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Mammary Gland
Parathyroid Gland
Skin
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Spinal Cord
Thymus

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Pituitary Gland
Spleen
Thyroid Gland

Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Adrenal Gland
Kidney
Liver
Lung
[Congestion TGLS = 1]
Uterus

Cortex

Cervix
Cervix

Degeneration
Nephropathy
Granuloma
Congestion

Abscess
Cyst
Hyperplasia

Fatty, Focal, Mild
Chronic, Minimal
Multifocal, Minimal
Mild

Marked

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Eye	Retina	Cataract	Marked
		Degeneration	Marked
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
Ovary		Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Skin		Basal Cell Adenoma	
Uterus	Cervix	Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 10

TRT#: 6

DOSE: 0.005%

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Polyp Stromal

[Polyp Stromal TGLS = 6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Intestine Large - Cecum

OBSERVATIONS

Clitoral Gland		Abscess	Marked
		Adenoma	
[Abscess TGLS = 6]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
[Cyst TGLS = 5]			
[Fibroadenoma TGLS = 2,3]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 4]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
Note: ADENOMA TGLs = 8			
[Adenoma TGLS = 8]			
Skin	Subcut Tiss	Schwannoma Benign	
[Schwannoma Benign TGLS = 1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Ear	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	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Spinal Cord

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLS = 1]		
	[Degeneration TGLS = 1]		
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 2]		
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLS = 1]		
	[Degeneration TGLS = 1]		
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 2]		
Pituitary Gland	Pars Distalis	Cyst	
Spleen		Hyperplasia	Lymphoid, Moderate
	[Hyperplasia TGLS = 3,4]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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 - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Fibrous Histiocytoma	
		Granuloma	Multifocal, Minimal
Lung		Fibrous Histiocytoma	Metastatic (Liver)
[Fibrous Histiocytoma TGLS = 3]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1,2]			
[Fibroadenoma TGLS = 2]			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Cyst	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: CYST	TGLs = 4		
[Adenoma TGLS = 4]			
[Angiectasis TGLS = 4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder		

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Developmental Malformation	Mild
		Granuloma	Multifocal, Mild
[Developmental Malformation TGLS = 4]			
Lung		Granuloma	Multifocal, Mild
		Infiltration Cellular	Histiocyte, Multifocal, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
[Cyst TGLS = 1]			
[Fibroadenoma TGLS = 2,3]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Moderate
[Adenoma TGLS = 5]			
[Angiectasis TGLS = 5]			
[Pigmentation TGLS = 5]			
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 6

SEX: Female

DAY ON TEST: 581

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Salivary Glands
Thymus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Spinal Cord
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Kidney
Nose
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Stomach - Glandular
Urinary Bladder

MISSING

Parathyroid Gland

Peripheral Nerve

OBSERVATIONS

Heart
Liver
Mammary Gland
 [Cyst TGLS = 1]
Pancreas
Pituitary Gland

Skin
 [Fibrosarcoma TGLS = 4]
Spleen
Uterus
 [Polyp Stromal TGLS = 3]

Centrilobular
Duct

Pars Distalis
Pars Distalis
Subcut Tiss

Cardiomyopathy
Necrosis
Cyst

Atrophy
Adenoma
Angiectasis
Fibrosarcoma

Hematopoietic Cell Proliferation
Polyp Stromal

Mild
Mild

Focal, Minimal
Moderate

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 2

SEX: Female

DAY ON TEST: 687

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Brain		Compression	Mild
Note: COMPRESSION	TGLs = 5		
Heart		Cardiomyopathy	Moderate
Islets, Pancreatic		Adenoma	
Kidney		Nephropathy	Chronic, Mild
Liver		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 2]			
[Fibroadenoma TGLS = 1,3]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 4]			
[Angiectasis TGLS = 4]			
[Pigmentation TGLS = 4]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Multifocal, Moderate
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Granuloma	Multifocal, Mild
		Hepatodiaphragmatic Nodule	Mild
		Necrosis	Multifocal, Mild
[Hepatodiaphragmatic Nodule TGLS = 2,3]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 4]			
[Angiectasis TGLS = 4]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Ear	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	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Mammary Gland	Peripheral Nerve
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OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Eye	Retina	Cataract	Marked
		Degeneration	Marked
			[Cataract TGLS = 1]
			[Degeneration TGLS = 1]
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mesentery	Fat	Necrosis	Focal, Moderate
			[Necrosis TGLS = 6]
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Hyperplasia	Lymphoid, Mild
		Leukemia Mononuclear	
Uterus		Adenocarcinoma	
		Polyp Stromal	
			[Adenocarcinoma TGLS = 5]
			[Polyp Stromal TGLS = 4,5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 2

SEX: Female

DAY ON TEST: 700

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Brain		Compression	Mild
[Compression TGLS = 7]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Mixed Cell Focus	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 8]		Fibroadenoma	
[Fibroadenoma TGLS = 1]			
Pharynx		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 5]			
Pituitary Gland	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Carcinoma	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Angiectasis TGLS = 6]			
[Carcinoma TGLS = 6]			
[Pigmentation TGLS = 6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 4

SEX: Female

DAY ON TEST: 677

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Brain	Clitoral Gland	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Jejunum	Islets, Pancreatic	Nose	Ovary
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Stomach - Glandular	Trachea	Urinary Bladder

MISSING

Intestine Small - Ileum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Bone Marrow		Leukemia Mononuclear	
Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
	[Leukemia Mononuclear TGLS = 10]		
	[Necrosis TGLS = 10]		
	[Proliferation TGLS = 10]		
Lung		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 4

SEX: Female

DAY ON TEST: 677

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Pancreatic
Popliteal
Renal

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4,6]
[Leukemia Mononuclear TGLS = 3]
[Leukemia Mononuclear TGLS = 12]
[Leukemia Mononuclear TGLS = 14]
[Leukemia Mononuclear TGLS = 13]
[Leukemia Mononuclear TGLS = 17]
[Leukemia Mononuclear TGLS = 19]
[Leukemia Mononuclear TGLS = 11]
[Leukemia Mononuclear TGLS = 8]
[Leukemia Mononuclear TGLS = 5]

Mammary Gland

Duct

Cyst

[Cyst TGLS = 2]

Pancreas

Atrophy

Focal, Mild

Leukemia Mononuclear

Pituitary Gland

Pars Distalis

Cyst

Pars Distalis

Leukemia Mononuclear

[Cyst TGLS = 20]

[Leukemia Mononuclear TGLS = 20]

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 9]

Stomach

Forestomach

Ulcer

Mild

Thymus

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 18]

Thyroid Gland

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 16]

Uterus

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 6

SEX: Female

DAY ON TEST: 608

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Ear	Esophagus
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tooth	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Liver		Vacuolization Cytoplasmic	Diffuse, Mild
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
[Hyperplasia TGLS = 7]			
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 2

SEX: Female

DAY ON TEST: 630

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	Biliar Tract	Proliferation	Moderate
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 2

SEX: Female

DAY ON TEST: 630

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 4

SEX: Female

DAY ON TEST: 686

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus
Uterus

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Peripheral Nerve
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Clitoral Gland
Liver

Duct

Hyperplasia
Basophilic Focus
Developmental Malformation
Granuloma

Moderate
Multiple
Multifocal, Mild

[Developmental Malformation TGLS = 2]

Mammary Gland

[Fibroadenoma TGLS = 1]

Fibroadenoma

Pituitary Gland

Pars Distalis

Cyst

Pars Distalis

Hyperplasia

Focal, Mild

[Cyst TGLS = 3]

[Hyperplasia TGLS = 3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Spleen	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 2

SEX: Female

DAY ON TEST: 526

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Spinal Cord
Thymus
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Peripheral Nerve
Spleen
Thyroid Gland

Bone
Heart
Intestine Small - Duodenum
Liver
Nose
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Skin
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Brain
[Compression TGLS = 5]

Kidney
Mammary Gland
[Fibroadenoma TGLS = 1]

Pancreas
Pituitary Gland
[Adenoma TGLS = 6]
[Angiectasis TGLS = 6]
[Pigmentation TGLS = 6]

Duct

Pars Distalis
Pars Distalis
Pars Distalis

Compression

Nephropathy
Cyst
Fibroadenoma

Atrophy
Adenoma
Angiectasis
Pigmentation

Mild

Chronic, Mild

Focal, Mild

Marked
Hemosiderin, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	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
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Clitoral Gland		Hyperplasia	Mild
Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 2]			
[Fibroadenoma TGLS = 4]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Moderate
[Adenoma TGLS = 5]			
[Angiectasis TGLS = 5]			
[Pigmentation TGLS = 5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Esophagus	Intestine Large - Rectum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Mesenteric	Nose	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Lymph Node - Mandibular
Ovary	Thymus		

OBSERVATIONS

Clitoral Gland		Adenoma	
Eye		Cataract	Marked
	Retina	Degeneration	Marked
Note: CATARACT	TGLs = 5		
Note: DEGEN	TGLs = 5		
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
[Leukemia Mononuclear TGLS = 3]			
[Proliferation TGLS = 3]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA	TGLs = 4		
Note: ANGIECTASIS	TGLs = 4		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen

[Leukemia Mononuclear TGLS = 2]

Leukemia Mononuclear

Uterus

Cervix

Abscess

Moderate

Cervix

Cyst

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
	Artery	Inflammation	Chronic, Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
[Cyst TGLS = 4]			
[Fibroadenoma TGLS = 1,2]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 4

DOSE: 0.01%

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Esophagus

Intestine Small - Duodenum

Lung

Pancreas

Skin

Stomach - Glandular

Urinary Bladder

Bone Marrow

Intestine Large - Cecum

Intestine Small - Ileum

Lymph Node - Mandibular

Parathyroid Gland

Spinal Cord

Thymus

Brain

Intestine Large - Colon

Intestine Small - Jejunum

Lymph Node - Mesenteric

Peripheral Nerve

Spleen

Thyroid Gland

Clitoral Gland

Intestine Large - Rectum

Islets, Pancreatic

Ovary

Salivary Glands

Stomach - Forestomach

Trachea

OBSERVATIONS

Adrenal Gland

Cortex

Hyperplasia

Focal, Mild

Bone

Osteosarcoma

Heart

Cardiomyopathy

Mild

Kidney

Nephropathy

Chronic, Minimal

Liver

Angiectasis

Focal, Moderate

Basophilic Focus

Multiple

Degeneration

Cystic, Minimal

Developmental Malformation

Mild

Granuloma

Multifocal, Mild

[Developmental Malformation TGLS = 4]

Mammary Gland

Duct

Cyst

[Cyst TGLS = 1]

Nose

Olfactory Epi

Erosion

Mild

Inflammation

Chronic, Mild

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Focal, Mild

Uterus

Hydrometra

Mild

[Hydrometra TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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 - Mesenteric	Nose	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

Adrenal Gland - Medulla	Clitoral Gland	Lymph Node - Mandibular	Ovary
Thymus			

OBSERVATIONS

Eye		Cataract	Moderate
	Retina	Degeneration	Mild
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Uterus	Cervix	Abscess	Moderate
	Cervix	Cyst	
[Abscess TGLS = 3]			
[Cyst TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Intestine Large	Cecum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Eosinophilic Focus	
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pharynx		Cyst	
Note: PHARYNX CYST ON SLIDE 11 OF NASAL SECTION			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
[Adenoma TGLS = 2]			
[Angiectasis TGLS = 2]			
Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 4

SEX: Female

DAY ON TEST: 727

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	Esophagus	Heart
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Kidney
Lung	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 3		
Eye	Retina	Degeneration	Marked
[Degeneration TGLS = 1]			
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
	Biliar Tract	Proliferation	Mild
Lymph Node	Mandibular	Ectasia	Mild
Mammary Gland	Duct	Cyst	
[Fibroadenoma TGLS = 2]		Fibroadenoma	
Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 5		
Uterus	Cervix	Abscess	Mild
		Adenocarcinoma	
	Cervix	Cyst	
[Adenocarcinoma TGLS = 4]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Small - Jejunum
Nose
Peripheral Nerve
Spinal Cord
Thymus
Uterus

Bone
Esophagus
Islets, Pancreatic
Ovary
Pituitary Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

MISSING

Intestine Large - Cecum

Intestine Large - Colon

OBSERVATIONS

Eye
[Cataract TGLS = 1]
[Degeneration TGLS = 1]

Retina

Cataract
Degeneration

Marked
Moderate

Heart
Intestine Large
Kidney
Liver

Rectum

Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Granuloma

Mild
Mild
Chronic, Mild
Multiple
Multifocal, Mild

Lung
Mammary Gland

Alveolar Epith
Duct

Hyperplasia
Cyst
Fibroadenoma

Focal, Mild

[Cyst TGLS = 4]
[Fibroadenoma TGLS = 3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Spleen
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Granuloma
Proliferation
Adenocarcinoma
Cyst
Fibroadenoma

Mild
Chronic, Minimal
Multiple
Multifocal, Minimal
Minimal

Mammary Gland

Biliar Tract
Duct

Necrosis

Focal, Moderate

Note: FIBROADENOMA TGLs = 1,2
Note: ADENOCARC TGLs = 1,2
[Cyst TGLS = 4]

Mesentery
[Necrosis TGLS = 3]

Fat
Pars Distalis
Pars Distalis

Adenoma
Angiectasis

Marked

[Adenoma TGLS = 5]
[Angiectasis TGLS = 5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Peripheral Nerve
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lung
Pancreas
Skin
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Spinal Cord
Thyroid Gland

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Heart
Kidney
Liver
Mammary Gland
[Cyst TGLS = 2]
[Fibroadenoma TGLS = 1]
Pituitary Gland
[Cyst TGLS = 3]
Spleen

Duct

Pars Distalis

Cardiomyopathy
Nephropathy
Granuloma
Cyst
Fibroadenoma

Cyst

Hematopoietic Cell Proliferation

Mild
Chronic, Mild
Multifocal, Marked

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

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 - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Liver
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Adrenal Gland - Medulla	Intestine Small - Duodenum
-------------------------	----------------------------

OBSERVATIONS

Clitoral Gland		Adenoma	
[Adenoma TGLS = 4]			
Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 2]			
[Fibroadenoma TGLS = 3]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 7]			
[Angiectasis TGLS = 7]			
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 6

SEX: Female

DAY ON TEST: 728

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

MISSING

Adrenal Gland - Medulla

OBSERVATIONS

Adrenal Gland	Cortex	Adenoma	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
	Biliar Tract	Proliferation	Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 1]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 3]			
[Angiectasis TGLS = 3]			
Stomach	Forestomach	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 4]			
Uterus	Cervix	Abscess	Marked
	Cervix	Cyst	
[Abscess TGLS = 2]			
[Cyst TGLS = 2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 4

SEX: Female

DAY ON TEST: 395

DOSE: 0.01%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Colon
Liver
Mammary Gland
Parathyroid Gland
Skin
Thymus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Lung
Nose
Peripheral Nerve
Spinal Cord
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lymph Node - Mandibular
Ovary
Pituitary Gland
Spleen
Trachea

Brain
Intestine Large - Cecum
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Salivary Glands
Stomach - Forestomach
Uterus

MISSING

Intestine Small - Ileum

AUTO PRECLUDES DIAG.

Intestine Small - Jejunum

OBSERVATIONS

Bone
Note: HYPERTROPHY TGLs = 3

Hypertrophy

Focal, Mild

Kidney
Note: NECROSIS TGLs = 4

Renal Tubule
Renal Tubule
Papilla

Degeneration
Dilatation
Necrosis

Multifocal, Moderate
Multifocal, Marked
Marked

Stomach
Urethra

Glandular

Ulcer
Calculus Gross Observation
Inflammation

Moderate
Suppurative, Acute, Moderate

[Calculus Gross Observation TGLS = 1]

[Inflammation TGLS = 2]

Urinary Bladder

Transit Epithe

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Pancreas
Skin
Stomach - Glandular

Bone
Heart
Intestine Small - Duodenum
Lung
Parathyroid Gland
Spinal Cord
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Peripheral Nerve
Spleen
Trachea

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Salivary Glands
Stomach - Forestomach
Urinary Bladder

MISSING

Clitoral Gland
Uterus

Lymph Node - Mandibular

Ovary

Thymus

OBSERVATIONS

Adrenal Gland
Kidney
Liver
Mammary Gland
Pituitary Gland

Cortex

Duct
Pars Distalis
Pars Distalis

Degeneration
Nephropathy
Basophilic Focus
Cyst
Adenoma
Angiectasis

Fatty, Focal, Mild
Chronic, Mild
Multiple

Moderate

[Adenoma TGLS = 1]

[Angiectasis TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Spleen
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Granuloma
Proliferation
Cyst

Mild
Chronic, Mild
Multiple
Multifocal, Minimal
Mild

Mammary Gland
[Cyst TGLS = 1]

Biliar Tract
Duct

Adenoma
Angiectasis
Abscess
Cyst
Polyp Stromal

Moderate
Marked

Pituitary Gland

Pars Distalis
Pars Distalis
Cervix
Cervix

Uterus

[Polyp Stromal TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Clitoral Gland	Intestine Large - Colon
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OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 5]			
Uterus	Cervix	Polyp	
[Polyp TGLS = 3]			
Vagina		Sarcoma	
Note: SARCOMA	TGLs = 2		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Ear	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 - Mesenteric	Nose	Ovary
Pancreas	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

MISSING

Lymph Node - Mandibular	Parathyroid Gland
-------------------------	-------------------

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLS = 1]		
	[Degeneration TGLS = 1]		
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 2]		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	[Adenoma TGLS = 4]		
	[Angiectasis TGLS = 4]		
Thyroid Gland	C Cell	Carcinoma	
	[Carcinoma TGLS = 3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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 - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder	Uterus		

MISSING

Clitoral Gland

OBSERVATIONS

Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
	Biliar Tract	Proliferation	Minimal
Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2]			
Pancreas		Atrophy	Focal, Moderate
Pituitary Gland	Pars Distalis	Adenoma	
Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Spleen
Thyroid Gland

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus
Uterus

OBSERVATIONS

Clitoral Gland
Heart
Kidney
Liver

Duct

Cyst
Cardiomyopathy
Nephropathy
Angiectasis
Clear Cell Focus

Minimal
Chronic, Mild
Focal, Moderate

[Clear Cell Focus TGLS = 3]

Mammary Gland

Duct

Cyst

[Cyst TGLS = 1]

Pituitary Gland

Pars Distalis

Angiectasis

Mild

Pars Distalis

Hyperplasia

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:48
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 22

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Polyp Stromal

[Hyperplasia TGLS = 2]

[Polyp Stromal TGLS = 3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 2

SEX: Female

DAY ON TEST: 538

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Esophagus	Intestine Large - Cecum	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Ovary	Pancreas
Peripheral Nerve	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Clitoral Gland	Intestine Large - Colon	Parathyroid Gland
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OBSERVATIONS

Brain		Compression	Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 2]			
[Fibroadenoma TGLS = 1]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
	Pars Distalis	Pigmentation	Hemosiderin, Mild
Note: ADENOMA TGLs = 4			
[Adenoma TGLS = 4]			
[Angiectasis TGLS = 4]			
Salivary Glands		Atrophy	Focal, Moderate
[Atrophy TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 4

SEX: Female

DAY ON TEST: 685

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Ear	Esophagus	Intestine Large - Cecum
Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lung	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Multifocal, Mild
Heart	Atrium	Cardiomyopathy	Marked
[Thrombosis TGLS = 8]		Thrombosis	Marked
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
[Basophilic Focus TGLS = 5]			
Lymph Node	Mandibular	Congestion	Mild
	Mediastinal	Congestion	Mild
	Mandibular	Ectasia	Mild
	Mediastinal	Ectasia	Mild
[Congestion TGLS = 6]			
[Congestion TGLS = 3]			
[Ectasia TGLS = 3]			
[Ectasia TGLS = 6]			
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:48

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 6

SEX: Female

DAY ON TEST: 526

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Spleen
Urinary Bladder

Adrenal Gland - Medulla
Heart
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Thymus
Uterus

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Thyroid Gland

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Trachea

MISSING

Esophagus

OBSERVATIONS

Brain
[Compression TGLS = 8]

Compression
Mild

Kidney
Liver
[Congestion TGLS = 3]
[Hepatodiaphragmatic Nodule TGLS = 4]

Nephropathy
Congestion
Granuloma
Hepatodiaphragmatic Nodule
Vacuolization Cytoplasmic
Chronic, Marked
Mild
Multifocal, Marked
Diffuse, Mild

Mammary Gland
Pituitary Gland
[Adenoma TGLS = 9]
[Angiectasis TGLS = 9]

Duct
Pars Distalis
Pars Distalis
Cyst
Adenoma
Angiectasis
Moderate

Stomach
Forestomach
Forestomach
Forestomach
Glandular
Forestomach

Hyperkeratosis
Hyperplasia
Inflammation
Inflammation
Ulcer
Moderate
Marked
Chronic, Marked
Chronic, Diffuse, Moderate
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 6

SEX: Female

DAY ON TEST: 526

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Spleen
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Granuloma
Cyst
Cyst

Minimal
Chronic, Minimal
Multiple
Multifocal, Minimal

Mammary Gland
Pituitary Gland

Duct
Pars Distalis

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Multifocal, Mild
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 3]			
[Fibroadenoma TGLS = 2]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 5]			
[Angiectasis TGLS = 5]			
Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 6

SEX: Female

DAY ON TEST: 700

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Esophagus

OBSERVATIONS

Clitoral Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 4			
Eye	Retina	Degeneration	Moderate
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 10]			
Liver		Basophilic Focus	
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2]		Fibroadenoma	
[Fibroadenoma TGLS = 5,6,7,8]			
Mesentery		Cyst	
[Cyst TGLS = 9]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 11]			
[Angiectasis TGLS = 11]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 6

SEX: Female

DAY ON TEST: 700

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 2

SEX: Female

DAY ON TEST: 722

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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 - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Lung	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Lymph Node - Mandibular

OBSERVATIONS

Clitoral Gland	Duct	Cyst	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 5]			
[Fibroadenoma TGLS = 2]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLS = 7]			
[Angiectasis TGLS = 7]			
Uterus	Cervix	Abscess	Moderate
	Cervix	Cyst	
		Hemorrhage	Moderate
		Polyp Stromal	Multiple
Note: POLYP STROMAL	TGLs = 4		
[Abscess TGLS = 6]			
[Cyst TGLS = 6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 2

SEX: Female

DAY ON TEST: 722

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Ear

Esophagus

Intestine Large - Cecum

Intestine Large - Rectum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Kidney

Lung

Lymph Node - Mandibular

Lymph Node - Mesenteric

Nose

Ovary

Parathyroid Gland

Peripheral Nerve

Salivary Glands

Skin

Spinal Cord

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Adrenal Gland

Cortex

Degeneration

Fatty, Focal, Mild

Clitoral Gland

Adenoma

Heart

Cardiomyopathy

Mild

Intestine Large

Colon

Parasite Metazoan

Mild

Liver

Basophilic Focus

Multiple

Mammary Gland

Duct

Granuloma

Multifocal, Minimal

[Cyst TGLS = 1]

Cyst

Pancreas

Atrophy

Focal, Moderate

Pituitary Gland

Pars Distalis

Cyst

Pars Distalis

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Esophagus	Pituitary Gland
-----------	-----------------

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLS = 1]		
	[Degeneration TGLS = 1]		
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 2]		
Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 3]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Focal, Minimal
		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1]			
[Fibroadenoma TGLS = 2]			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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 - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 3,6		
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 5]		Fibroadenoma	
[Fibroadenoma TGLS = 6]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 7		
Note: ADENOMA	TGLs = 7		
Skin		Basal Cell Adenoma	Multiple
[Basal Cell Adenoma TGLS = 1,2]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Peripheral Nerve
Spinal Cord
Thymus
Uterus

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Pituitary Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Clitoral Gland
Liver

Mammary Gland
[Cyst TGLS = 1]
Pancreas

Duct

Hyperplasia
Basophilic Focus
Granuloma
Cyst

Atrophy

Moderate
Multiple
Multifocal, Mild

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Eye
Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum	Intestine Small - Duodenum
Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 5]			
Mesentery	Fat	Necrosis	Multifocal, Moderate
[Necrosis TGLS = 2,3]			
Nose		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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 - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland	Duct	Cyst Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1 [Cyst TGLs = 1]			
Liver		Basophilic Focus Leukemia Mononuclear Proliferation	Multiple Mild
[Basophilic Focus TGLs = 5] [Leukemia Mononuclear TGLs = 5] [Proliferation TGLs = 5]			
Mammary Gland	Duct	Cyst Fibroadenoma	Multiple
[Fibroadenoma TGLs = 2,3]			
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Moderate Hemosiderin, Mild
[Adenoma TGLs = 6] [Angiectasis TGLs = 6]			
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Nose	Ovary
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
		Cyst	
Mammary Gland	Duct		
[Cyst TGLS = 1]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Cyst	
Uterus		Inflammation	Suppurative, Acute, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Stomach - Forestomach
Trachea

Bone
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Urinary Bladder

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Spinal Cord
Thymus

Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spleen
Thyroid Gland

OBSERVATIONS

Adrenal Gland
Heart
Kidney
[Nephropathy TGLS = 6]
Liver

Medulla

Hyperplasia
Cardiomyopathy
Nephropathy

Focal, Mild
Mild
Chronic, Moderate

[Developmental Malformation TGLS = 4]

Mammary Gland
[Cyst TGLS = 5]
[Fibroadenoma TGLS = 3]

Duct

Cyst
Fibroadenoma

Multiple
Moderate
Multifocal, Mild

Pituitary Gland
[Cyst TGLS = 7]

Pars Distalis

Cyst

Skin
[Fibroma TGLS = 1,2]
Uterus

Subcut Tiss

Fibroma
Polyp Stromal

Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Jejunum
Nose
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Islets, Pancreatic
Parathyroid Gland
Spinal Cord
Thymus
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Peripheral Nerve
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Ileum
Lymph Node - Mesenteric
Salivary Glands
Stomach - Forestomach
Trachea

MISSING

Intestine Large - Rectum

OBSERVATIONS

Kidney
Liver

Lung
Mammary Gland

Alveolar Epith
Duct

Nephropathy
Angiectasis
Basophilic Focus
Hyperplasia
Cyst
Fibroadenoma

Chronic, Mild
Focal, Mild
Multiple
Focal, Mild
Multiple

Note: FIBROADENOMA TGLs = 2
[Cyst TGLS = 1]

Ovary
[Cyst TGLS = 3]

Cyst

Pancreas
Pituitary Gland

Pars Distalis
Pars Distalis

Basophilic Focus
Adenoma
Angiectasis

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 6

SEX: Female

DAY ON TEST: 486

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lung
Ovary
Salivary Glands
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mandibular
Pancreas
Skin
Thyroid Gland

Bone
Heart
Intestine Small - Duodenum
Kidney
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Liver
Nose
Peripheral Nerve
Stomach - Forestomach
Urinary Bladder

MISSING

Thymus

OBSERVATIONS

Clitoral Gland
[Carcinoma TGLS = 2]
Mammary Gland
Pituitary Gland
[Adenoma TGLS = 5]
[Angiectasis TGLS = 5]
Spleen

Duct
Pars Distalis
Pars Distalis

Carcinoma
Cyst
Adenoma
Angiectasis

Moderate

Hematopoietic Cell Proliferation

Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 2

SEX: Female

DAY ON TEST: 485

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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	Kidney	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Liver		Developmental Malformation	Mild
[Developmental Malformation TGLS = 2]			
Mammary Gland		Adenocarcinoma	
	Duct	Cyst	
[Adenocarcinoma TGLS = 1]			
Nose		Foreign Body	Mild
		Fungus	Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 2,3 [Cyst TGLS = 1]			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Peripheral Nerve
Spleen
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus

OBSERVATIONS

Heart
Kidney
Liver

Lung
Mammary Gland
 [Cyst TGLS = 1]
Pituitary Gland

 [Adenoma TGLS = 2]
 [Angiectasis TGLS = 2]
Thyroid Gland

Biliar Tract

Duct

Pars Distalis
Pars Distalis

C Cell

Cardiomyopathy
Nephropathy
Basophilic Focus
Proliferation
Hemorrhage
Cyst

Adenoma
Angiectasis

Adenoma

Minimal
Chronic, Moderate
Multiple
Mild
Multifocal, Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 2

SEX: Female

DAY ON TEST: 636

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Polyp Stromal

[Polyp Stromal TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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 - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Salivary Glands	Skeletal Muscle	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Intestine Large	Colon	Parasite Metazoan	Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
		Necrosis	Multifocal, Mild
Note: NECROSIS TGLs = 4			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2]			
Thyroid Gland	C Cell	Adenoma	
Uterus	Cervix	Cyst	
		Hydrometra	Mild
[Hydrometra TGLS = 3]			
Vagina		Polyp	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Ear	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
Lymph Node - Mesenteric	Nose	Ovary	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Trachea	Urinary Bladder

MISSING

Parathyroid Gland	Thymus
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OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Moderate
Kidney		Nephropathy	Chronic, Moderate
Liver		Granuloma	Multifocal, Mild
	Biliar Tract	Proliferation	Mild
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Minimal
		Basophilic Focus	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	

[Polyp Stromal TGLS = 3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Uterus			

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 3]			
[Fibroadenoma TGLS = 3]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2]			
Nose		Foreign Body	Mild
		Fungus	Moderate
		Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4		
Skin	Subcut Tiss	Sarcoma	
Note: SARCOMA	TGLs = 1		
Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate
Urinary Bladder	Transit Epithe	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Ear	Esophagus
Intestine Large - Cecum	Intestine Large - Colon	Intestine Small - Duodenum	Intestine Small - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Kidney	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Liver		Basophilic Focus	Multiple
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Fibroadenoma TGLS = 2]			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Skin	Subcut Tiss	Schwannoma Benign	
[Schwannoma Benign TGLS = 1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 6

SEX: Female

DAY ON TEST: 686

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Esophagus	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Intestine Large - Cecum

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 1]			
[Degeneration TGLS = 1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 8]			
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
[Leukemia Mononuclear TGLS = 9]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 2]			
[Fibroadenoma TGLS = 3]			
Mesentery		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Roxarsone
CAS Number: 121-19-7

Date Report Requested: 10/23/2014
Time Report Requested: 11:28:49
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 31	TRT#: 6 DOSE: 0.005%	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 686 HISTO:
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ORGAN AND ACCOUNTABLE SITE STATUS

Ovary [Cyst TGLS = 4]		Cyst	
Pituitary Gland [Adenoma TGLS = 11] [Angiectasis TGLS = 11]	Pars Distalis Pars Distalis	Adenoma Angiectasis	Moderate
Spleen [Leukemia Mononuclear TGLS = 5,6,7]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 2

SEX: Female

DAY ON TEST: 647

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	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	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Clitoral Gland	Parathyroid Gland
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OBSERVATIONS

Brain Note: COMPRESSION TGLs = 6		Compression	Mild
Kidney [Nephropathy TGLS = 4]		Nephropathy	Chronic, Marked
Liver Note: NECROSIS TGLs = 2		Granuloma Hyperplasia Necrosis	Multifocal, Minimal Focal, Moderate Multifocal, Mild
Mammary Gland [Adenocarcinoma TGLS = 1] [Cyst TGLS = 3]	Duct	Adenocarcinoma Cyst	
Pituitary Gland Note: PIGMENT TGLs = 5 [Adenoma TGLS = 5] [Pigmentation TGLS = 5]	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Pigmentation	Marked Hemosiderin, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 2

SEX: Female

DAY ON TEST: 647

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
	Biliar Tract	Proliferation	Mild
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1]			
Pituitary Gland	Pars Distalis	Cyst	
	Pars Distalis	Hyperplasia	Focal, Mild
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Nose
Skin
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Small - Duodenum
Lung
Ovary
Spinal Cord
Thymus

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Peripheral Nerve
Stomach - Forestomach
Urinary Bladder

MISSING

Parathyroid Gland

Salivary Glands

OBSERVATIONS

Heart
Intestine Large
Kidney
Liver

Rectum

Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Developmental Malformation
Granuloma
Vacuolization Cytoplasmic

Mild
Mild
Chronic, Minimal
Multiple
Multifocal, Mild
Focal, Marked

[Developmental Malformation TGLS = 4]

[Vacuolization Cytoplasmic TGLS = 3]

Mammary Gland

Duct

Cyst
Fibroadenoma

[Cyst TGLS = 1]

[Fibroadenoma TGLS = 2]

Pituitary Gland

Pars Distalis
Pars Distalis

Adenoma
Angiectasis

Moderate

[Adenoma TGLS = 6]

[Angiectasis TGLS = 6]

Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLS = 5]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 2

SEX: Female

DAY ON TEST: 589

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6]		
	[Leukemia Mononuclear TGLS = 6]		
Clitoral Gland		Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 1		
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
	[Nephropathy TGLS = 7]		
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
	[Leukemia Mononuclear TGLS = 9]		
	[Necrosis TGLS = 9]		
	[Proliferation TGLS = 9]		
Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10,11]		
Mammary Gland	Duct	Cyst	
	[Cyst TGLS = 3]		
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 2

SEX: Female

DAY ON TEST: 589

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 12]

[Angiectasis TGLS = 12]

[Pigmentation TGLS = 12]

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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
Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Peripheral Nerve	Pituitary Gland
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Mild
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Angiectasis	Focal, Moderate
		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 4]			
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1]			
Pancreas		Atrophy	Focal, Mild
Stomach	Forestomach	Cyst	
[Cyst TGLS = 3]			
Thyroid Gland	C Cell	Adenoma	
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Spinal Cord
Thymus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Peripheral Nerve
Spleen
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Skin
Stomach - Glandular
Urinary Bladder

OBSERVATIONS

Heart
Liver

Cardiomyopathy
Basophilic Focus
Granuloma
Cyst
Atrophy
Cyst
Hyperplasia
Abscess
Cyst
Polyp Stromal

Mild
Multiple
Multifocal, Mild

Focal, Mild

Focal, Mild
Marked

Mammary Gland
Pancreas
Pituitary Gland

Duct

Pars Distalis
Pars Distalis
Cervix
Cervix

[Abscess TGLS = 2]
[Cyst TGLS = 2]
[Polyp Stromal TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Lymph Node - Mesenteric
Nose	Ovary	Peripheral Nerve	Pituitary Gland
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder
Uterus			

MISSING

Parathyroid Gland

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Cortex	Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Minimal
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Moderate
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1]			
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 4

SEX: Female

DAY ON TEST: 724

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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	Kidney
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Bone		Osteosarcoma	
Clitoral Gland		Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 1		
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	Multiple
		Developmental Malformation	Mild
		Granuloma	Multifocal, Minimal
[Developmental Malformation TGLS = 4]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Spinal Cord		Osteosarcoma	Metastatic (Bone)
Urinary Bladder		Hemorrhage	Multifocal, Mild
[Hemorrhage TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus
Uterus

Adrenal Gland - Medulla
Ear
Intestine Large - Rectum
Islets, Pancreatic
Nose
Pituitary Gland
Spleen
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Urinary Bladder

MISSING

Peripheral Nerve

OBSERVATIONS

Clitoral Gland
Note: ADENOMA TGLs = 1
Heart
Kidney
Liver

Adenoma

Cardiomyopathy
Nephropathy
Basophilic Focus
Clear Cell Focus
Granuloma
Cyst

Mild
Chronic, Mild
Multiple
Multifocal, Mild

Mammary Gland
[Cyst TGLS = 2]
Duct

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Kidney
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Clitoral Gland

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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 - Ileum
Intestine Small - Jejunum	Islets, Pancreatic	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Tongue	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1		
Kidney		Fibrosis	Focal, Mild
[Fibrosis TGLS = 2]			
Liver		Basophilic Focus	
		Developmental Malformation	Mild
		Granuloma	Multifocal, Minimal
[Basophilic Focus TGLS = 3]			
[Developmental Malformation TGLS = 4]			
Lung	Alveolar Epith	Hyperplasia	Focal, Moderate
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Peripheral Nerve
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Ovary
Skin
Thyroid Gland

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Spinal Cord
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Urinary Bladder

MISSING

Salivary Glands

Thymus

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Leukemia Mononuclear
Vacuolization Cytoplasmic
Leukemia Mononuclear
Cyst

Mild
Chronic, Mild
Multiple
Focal, Mild

Lung
Mammary Gland
[Cyst TGLS = 1]
Pituitary Gland

Duct
Pars Distalis
Pars Distalis

Adenoma
Angiectasis

Moderate

[Adenoma TGLS = 5]
[Angiectasis TGLS = 5]

Spleen
[Leukemia Mononuclear TGLS = 2,3]

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Kidney	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Cyst	
Clitoral Gland	Duct	Cyst	
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 3]			
[Angiectasis TGLS = 3]			
Uterus	Cervix	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 4

SEX: Female

DAY ON TEST: 637

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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
Nose	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Thymus	Trachea
Urinary Bladder	Uterus		

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6]			
[Leukemia Mononuclear TGLS = 6]			
Blood		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1]			
Heart		Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
Liver		Developmental Malformation	
		Leukemia Mononuclear	
	Biliar Tract	Proliferation	Mild
[Developmental Malformation TGLS = 10]			
[Leukemia Mononuclear TGLS = 8,9]			
[Proliferation TGLS = 8,9]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Mesentery	Fat	Necrosis	Focal, Marked
[Necrosis TGLS = 7]			
Ovary		Leukemia Mononuclear	
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis	Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 4

SEX: Female

DAY ON TEST: 637

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Spleen [Leukemia Mononuclear TGLS = 5]		Leukemia Mononuclear	
Stomach [Erosion TGLS = 13]	Glandular Forestomach	Erosion Ulcer	Mild Moderate
Thyroid Gland	C Cell	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Esophagus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA TGLs = 4			
Note: ANGIECTASIS TGLs = 4			
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	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	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

MISSING

Intestine Large - Rectum

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Colon	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 3]			
[Angiectasis TGLS = 3]			
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 4

SEX: Female

DAY ON TEST: 697

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Bone	Bone Marrow	Brain
Clitoral Gland	Ear	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
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Medulla	Pheochromocytoma Benign	
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Moderate
Liver		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 2]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
[Adenoma TGLS = 4]			
[Angiectasis TGLS = 4]			
Stomach	Forestomach	Edema	Mild
	Forestomach	Erosion	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Parathyroid Gland
Spinal Cord
Thymus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Peripheral Nerve
Spleen
Thyroid Gland

Bone
Heart
Intestine Small - Duodenum
Kidney
Nose
Salivary Glands
Stomach - Forestomach
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Skin
Stomach - Glandular
Urinary Bladder

MISSING

Esophagus

OBSERVATIONS

Liver		Developmental Malformation	Mild
[Developmental Malformation TGLS = 2]			
Mammary Gland	Duct	Cyst Fibroadenoma	
[Fibroadenoma TGLS = 1]			
Pancreas		Atrophy	Focal, Minimal
Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Mild
[Adenoma TGLS = 3]			
[Angiectasis TGLS = 3]			
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 2

SEX: Female

DAY ON TEST: 647

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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	Liver	Lung
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
	Medulla	Hematopoietic Cell Proliferation	Mild
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 2]			
[Angiectasis TGLS = 2]			
Spleen		Hematopoietic Cell Proliferation	Marked
Uterus			

Note: LESION IS PROLAPSE OF UTERINE CERVIX (TGL-1)

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 4

SEX: Female

DAY ON TEST: 678

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Thymus	Thyroid Gland
Trachea			

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Mild
Kidney		Hydronephrosis	Marked
[Hydronephrosis TGLS = 8]			
Liver		Basophilic Focus	Multiple
		Developmental Malformation	
	Biliar Tract	Granuloma	Multifocal, Minimal
[Developmental Malformation TGLS = 10]		Proliferation	Mild
Mammary Gland		Adenocarcinoma	
	Duct	Cyst	
[Adenocarcinoma TGLS = 2]			
[Cyst TGLS = 1]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Mild
Note: ADENOMA TGLs = 11			
Note: ANGIECTASIS TGLs = 11			
Stomach	Glandular	Edema	Mild
Urinary Bladder		Squamous Cell Carcinoma	Metastatic (Uncertain Primary Site)
Note: SQUAM CEL CARC TGLs = 6			
Note: PRIMARY SITE IS CERVIX			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 4

SEX: Female

DAY ON TEST: 678

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Uterus

Cervix

Squamous Cell Carcinoma

Note: SQUAM CEL CARC TGLs = 7

Note: PRIMARY-SITE IS CERVIX

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Nose
Peripheral Nerve
Spleen
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thyroid Gland

MISSING

Thymus

OBSERVATIONS

Heart
Islets, Pancreatic
Kidney
Liver

Cardiomyopathy
Adenoma
Nephropathy
Basophilic Focus
Granuloma
Proliferation
Cyst
Fibroadenoma

Mild
Chronic, Mild
Multiple
Multifocal, Mild
Moderate

Mammary Gland

Biliar Tract
Duct

[Cyst TGLS = 1]
[Fibroadenoma TGLS = 2,3]

Pituitary Gland

Pars Distalis
Pars Distalis

Adenoma
Angiectasis

Mild

[Adenoma TGLS = 4]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Intestine Small - Ileum	Intestine Small - Jejunum
Islets, Pancreatic	Liver	Lung	Lymph Node - Mandibular
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Heart		Cardiomyopathy	Mild
Intestine Large	Rectum	Parasite Metazoan	Mild
Kidney		Nephropathy	Chronic, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1]			
[Fibroadenoma TGLS = 2]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Skin		Cyst Epithelial Inclusion	

Note: INCLUSION CYST ON SKIN OF THE FACE

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla	Bone	Bone Marrow	Brain
Clitoral Gland	Ear	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
Lymph Node - Mesenteric	Ovary	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Heart		Cardiomyopathy	Minimal
Kidney		Nephropathy	Chronic, Mild
Liver	Biliar Tract	Proliferation	Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1]			
[Fibroadenoma TGLS = 2]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Minimal
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 3]			
[Angiectasis TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Stomach - Glandular

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Spinal Cord
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Pituitary Gland
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver
Mammary Gland
[Fibroadenoma TGLS = 1,2]
Thyroid Gland
Uterus

Duct

C Cell

Cardiomyopathy
Nephropathy
Basophilic Focus
Cyst
Fibroadenoma
Carcinoma
Polyp Stromal

Mild
Chronic, Mild
Multiple
Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus

Bone
Esophagus
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Spleen
Thyroid Gland

Bone Marrow
Heart
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Kidney
Liver
 [Developmental Malformation TGLS = 3]
Mammary Gland
 [Cyst TGLS = 1]
Pituitary Gland
 [Adenoma TGLS = 4]
 [Angiectasis TGLS = 4]
Uterus
 [Polyp Stromal TGLS = 2]

Duct
Pars Distalis
Pars Distalis

Nephropathy
Developmental Malformation
Cyst
Adenoma
Angiectasis
Polyp Stromal

Chronic, Mild
Mild
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Peripheral Nerve
Pituitary Gland	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Minimal
	Biliar Tract	Proliferation	Mild
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Mammary Gland	Duct	Cyst	
Pancreas		Atrophy	Focal, Mild
Thyroid Gland	C Cell	Adenoma	Multiple

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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

Kidney

Lung

Lymph Node - Mandibular

Lymph Node - Mesenteric

Nose

Parathyroid Gland

Peripheral Nerve

Salivary Glands

Skin

Spinal Cord

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

Uterus

OBSERVATIONS

Adrenal Gland

Cortex

Degeneration

Fatty, Focal, Moderate

Clitoral Gland

Duct

Cyst

[Cyst TGLS = 1]

Heart

Cardiomyopathy

Mild

Liver

Basophilic Focus

Granuloma

Multifocal, Mild

Mammary Gland

Duct

Cyst

Ovary

Cyst

[Cyst TGLS = 2]

Pancreas

Atrophy

Focal, Mild

Pituitary Gland

Pars Distalis

Hyperplasia

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Nose
Salivary Glands
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Small - Duodenum
Lung
Ovary
Skin
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Spinal Cord
Thymus
Uterus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Peripheral Nerve
Spleen
Thyroid Gland

OBSERVATIONS

Heart
Intestine Large
Kidney
Liver

Mammary Gland

[Cyst TGLS = 2]
[Fibroadenoma TGLS = 1]
Pancreas
Pituitary Gland

Rectum

Biliar Tract
Duct

Pars Distalis

Cardiomyopathy
Parasite Metazoan
Nephropathy
Basophilic Focus
Granuloma
Proliferation
Cyst
Fibroadenoma

Atrophy
Cyst

Moderate
Mild
Chronic, Mild
Multiple
Multifocal, Minimal
Mild

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 6

SEX: Female

DAY ON TEST: 602

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Heart	Intestine Large - Cecum	Intestine Large - Colon	Intestine Large - Rectum
Intestine Small - Duodenum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Lymph Node - Mesenteric	Nose	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

MISSING

Esophagus

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7]			
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Marked
[Leukemia Mononuclear TGLS = 6]			
Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9			
Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 3]			
Ovary		Leukemia Mononuclear	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 2

SEX: Female

DAY ON TEST: 635

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus

Bone
Ear
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Spleen
Thyroid Gland

Bone Marrow
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Granuloma
Proliferation
Cyst

Mild
Chronic, Minimal
Multiple
Multifocal, Mild
Moderate

Mammary Gland
[Cyst TGLS = 1]

Biliar Tract
Duct

Pituitary Gland

Pars Distalis
Pars Distalis

Hemorrhage
Thrombosis

Marked

Note: THROMBUS TGLs = 3
[Hemorrhage TGLS = 3]

Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 4

SEX: Female

DAY ON TEST: 517

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Bone Marrow	Brain	Clitoral Gland
Esophagus	Heart	Intestine Large - Cecum	Intestine Large - Colon
Intestine Large - Rectum	Intestine Small - Ileum	Intestine Small - Jejunum	Islets, Pancreatic
Kidney	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Pituitary Gland	Salivary Glands	Skin	Spinal Cord
Stomach - Glandular	Thyroid Gland	Trachea	Urinary Bladder

MISSING

Intestine Small - Duodenum	Thymus
----------------------------	--------

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	Biliar Tract	Proliferation	Mild
		Vacuolization Cytoplasmic	Diffuse, Moderate
[Leukemia Mononuclear TGLS = 6]			
Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7]			
Mammary Gland	Duct	Cyst	
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4]			
Stomach	Forestomach	Hyperkeratosis	Mild
	Forestomach	Hyperplasia	Mild
[Hyperkeratosis TGLS = 8]			
[Hyperplasia TGLS = 8]			
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mandibular	Lymph Node - Mesenteric
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Clitoral Gland	Duct	Cyst	
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Multiple
	Biliar Tract	Proliferation	Moderate
[Basophilic Focus TGLS = 2]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Nose	Nasolacrim Dct	Inflammation	Suppurative, Acute, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA TGLs = 5			
[Adenoma TGLS = 5]			
Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Minimal
Heart		Cardiomyopathy	Minimal
Kidney		Fibrosis	Focal, Mild
		Nephropathy	Chronic, Minimal
[Fibrosis TGLS = 4]			
Liver		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
[Cyst TGLS = 1]			
[Fibroadenoma TGLS = 2,3]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 5]			
[Angiectasis TGLS = 5]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Kidney	Lymph Node - Mandibular	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	Uterus	

MISSING

Lymph Node - Mesenteric

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Multifocal, Moderate
Harderian Gland		Inflammation	Chronic, Mild
Heart		Cardiomyopathy	Mild
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Moderate
Lung	Alveolar Epith	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 2]			
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
[Adenoma TGLS = 3]			
[Angiectasis TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Ear	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
Lymph Node - Mesenteric	Nose	Ovary	Parathyroid Gland
Peripheral Nerve	Salivary Glands	Skin	Spinal Cord
Spleen	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Clitoral Gland		Hyperplasia	Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Moderate
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Cyst	
Tooth		Dysplasia	Marked
Uterus		Hemorrhage	Moderate
[Hemorrhage TGLS = 2]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: UNTREATD CONTROL

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Medulla
Esophagus
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Uterus

Bone
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus

Bone Marrow
Intestine Large - Colon
Islets, Pancreatic
Nose
Peripheral Nerve
Spleen
Trachea

Brain
Intestine Large - Rectum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Urinary Bladder

MISSING

Intestine Small - Duodenum

OBSERVATIONS

Adrenal Gland
Clitoral Gland

Cortex

Degeneration
Abscess
Inflammation

Fatty, Focal, Mild
Moderate
Chronic, Mild

[Abscess TGLS = 2]
[Inflammation TGLS = 2]

Heart
Kidney
Liver

Cardiomyopathy
Nephropathy
Basophilic Focus
Granuloma
Cyst

Mild
Chronic, Minimal
Multiple
Multifocal, Mild

Mammary Gland
[Cyst TGLS = 1]

Duct

Pituitary Gland
Thyroid Gland

Pars Distalis
C Cell

Cyst
Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Nose	Parathyroid Gland
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder		

OBSERVATIONS

Kidney		Nephropathy	Chronic, Minimal
Liver		Granuloma	Multifocal, Minimal
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1]			
[Fibroadenoma TGLS = 4]			
Ovary		Cyst	
[Cyst TGLS = 2]			
Pancreas		Atrophy	Focal, Mild
Peripheral Nerve		Infiltration Cellular	Mononuclear CI, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Uterus		Cyst	
[Cyst TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Rectum
Liver
Nose
Salivary Glands
Stomach - Fore stomach
Urinary Bladder

Adrenal Gland - Medulla
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Skin
Stomach - Glandular

Bone
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Parathyroid Gland
Spinal Cord
Thymus

Bone Marrow
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Peripheral Nerve
Spleen
Trachea

OBSERVATIONS

Clitoral Gland
Note: HYPERPLASIA TGLs = 1
Heart
Islets, Pancreatic
Kidney
Mammary Gland
[Fibroadenoma TGLS = 2]
Pancreas
Pituitary Gland
Thyroid Gland
Uterus
[Polyp Stromal TGLS = 3]

Duct

Pars Distalis
C Cell

Hyperplasia
Cardiomyopathy
Adenoma
Nephropathy
Cyst
Fibroadenoma
Atrophy
Cyst
Adenoma
Polyp Stromal

Minimal
Mild
Chronic, Moderate
Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 2

SEX: Female

DAY ON TEST: 728

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Pancreas
Skin
Stomach - Glandular
Uterus

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Mammary Gland
Parathyroid Gland
Spinal Cord
Thymus

Bone
Esophagus
Intestine Small - Duodenum
Lung
Nose
Peripheral Nerve
Spleen
Trachea

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Ovary
Salivary Glands
Stomach - Forestomach
Urinary Bladder

OBSERVATIONS

Heart
Kidney
Liver
[Developmental Malformation TGLS = 3]
Pituitary Gland
Thyroid Gland

Pars Distalis
C Cell

Cardiomyopathy
Nephropathy
Developmental Malformation
Granuloma
Hyperplasia
Adenoma

Mild
Chronic, Minimal
Multifocal, Minimal
Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 4

SEX: Female

DAY ON TEST: 649

DOSE: 0.01%

DISP: Natural Death

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Stomach - Forestomach
Trachea

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Stomach - Glandular
Urinary Bladder

Bone
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Skin
Thymus

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Spinal Cord
Thyroid Gland

MISSING

Pituitary Gland

Salivary Glands

OBSERVATIONS

Heart
Kidney

Cardiomyopathy
Leukemia Mononuclear
Nephropathy
Leukemia Mononuclear
Necrosis
Proliferation

Mild
Chronic, Mild
Moderate
Mild

Liver

Centrilobular
Biliar Tract

Cyst

[Leukemia Mononuclear TGLS = 4]

Mammary Gland

Duct

Leukemia Mononuclear
Hydrometra
Polyp Stromal

Mild

[Cyst TGLS = 1]

Spleen

Uterus

[Hydrometra TGLS = 2]

[Polyp Stromal TGLS = 3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	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 - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Stomach - Glandular
Thymus	Trachea	Urinary Bladder	Uterus

OBSERVATIONS

Bone Marrow		Leukemia Mononuclear	
Kidney		Nephropathy	Chronic, Moderate
Liver		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Lung		Leukemia Mononuclear	
Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Leukemia Mononuclear	
	Pars Distalis	Pigmentation	Hemosiderin, Mild
[Adenoma TGLS = 2]			
[Angiectasis TGLS = 2]			
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1]			
Stomach	Forestomach	Hyperkeratosis	Mild
	Forestomach	Hyperplasia	Mild
	Forestomach	Ulcer	Moderate
Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

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:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mandibular
Pancreas
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Lymph Node - Mesenteric
Parathyroid Gland
Spinal Cord
Thymus
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Kidney
Nose
Peripheral Nerve
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lung
Ovary
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Liver
Mammary Gland
 [Cyst TGLS = 1]
Mesentery
 [Mineralization TGLS = 2]
 [Necrosis TGLS = 2]
Pituitary Gland
 [Adenoma TGLS = 3]
 [Angiectasis TGLS = 3]

Duct

Fat

Pars Distalis
Pars Distalis

Cardiomyopathy
Basophilic Focus
Cyst

Mineralization
Necrosis

Adenoma
Angiectasis

Minimal
Multiple

Multifocal, Moderate
Focal, Marked

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex	Adrenal Gland - Medulla	Bone	Bone Marrow
Brain	Clitoral Gland	Ear	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	Lymph Node - Mesenteric	Mammary Gland
Nose	Ovary	Pancreas	Parathyroid Gland
Peripheral Nerve	Pituitary Gland	Salivary Glands	Skin
Spinal Cord	Stomach - Forestomach	Stomach - Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLS = 4,5]		
	[Degeneration TGLS = 4,5]		
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
		Granuloma	Multifocal, Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3]		
Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2]		
Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 1]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 6

SEX: Female

DAY ON TEST: 539

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

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	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

MISSING

Salivary Glands

OBSERVATIONS

Kidney		Nephropathy	Chronic, Mild
Liver		Granuloma	Multifocal, Mild
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 1]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
	Pars Distalis	Hemorrhage	Marked
[Adenoma TGLS = 3]			
[Angiectasis TGLS = 3]			
[Hemorrhage TGLS = 3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 2

SEX: Female

DAY ON TEST: 701

DOSE: UNTREATD CONTROL

DISP: Moribund Sacrifice

HISTO:

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	Kidney
Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder
Uterus			

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1]			
Heart		Cardiomyopathy	Minimal
Liver		Basophilic Focus	Multiple
		Leukemia Mononuclear	
Lung		Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	Multiple
[Cyst TGLS = 4]			
[Fibroadenoma TGLS = 2,3]			
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 4

SEX: Female

DAY ON TEST: 714

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Intestine Small - Duodenum

OBSERVATIONS

Adrenal Gland	Cortex	Degeneration	Fatty, Focal, Mild
Brain		Compression	Mild
Note: COMPRESSION	TGLs = 6		
Clitoral Gland	Duct	Cyst	
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	
		Granuloma	Multifocal, Mild
		Mixed Cell Focus	
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1]			
[Fibroadenoma TGLS = 2]			
Pancreas		Atrophy	Focal, Mild
Peripheral Nerve		Infiltration Cellular	Mononuclear CI, Mild
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Marked
[Adenoma TGLS = 5]			
Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 4

SEX: Female

DAY ON TEST: 714

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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
Lymph Node - Mesenteric	Nose	Ovary	Pancreas
Parathyroid Gland	Peripheral Nerve	Salivary Glands	Skin
Spinal Cord	Spleen	Stomach - Forestomach	Stomach - Glandular
Thymus	Thyroid Gland	Trachea	Urinary Bladder

OBSERVATIONS

Adrenal Gland	Cortex	Hyperplasia	Focal, Mild
Kidney		Nephropathy	Chronic, Moderate
[Nephropathy TGLS = 5]			
Liver		Developmental Malformation	
		Hepatodiaphragmatic Nodule	
Note: ANOM HEPAT LOB TGLs = 6			
[Hepatodiaphragmatic Nodule TGLS = 7]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1]			
[Fibroadenoma TGLS = 2]			
Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA TGLs = 8			
[Adenoma TGLS = 8]			
Uterus	Cervix	Abscess	Moderate
	Cervix	Cyst	
[Abscess TGLS = 4]			
[Cyst TGLS = 4]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 4

SEX: Female

DAY ON TEST: 730

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Islets, Pancreatic
Lymph Node - Mesenteric
Pancreas
Salivary Glands
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Kidney
Mammary Gland
Parathyroid Gland
Spinal Cord
Thymus

Bone
Esophagus
Intestine Small - Ileum
Lung
Nose
Peripheral Nerve
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Jejunum
Lymph Node - Mandibular
Ovary
Pituitary Gland
Stomach - Forestomach
Trachea

MISSING

Intestine Small - Duodenum

OBSERVATIONS

Heart
Liver

Cardiomyopathy
Basophilic Focus
Granuloma
Squamous Cell Papilloma

Minimal
Multiple
Multifocal, Mild

Skin
[Squamous Cell Papilloma TGLS = 1]

Uterus
Cervix
Cervix

Abscess
Cyst
Polyp Stromal

Multiple, Mild
Multiple

[Abscess TGLS = 2,3]

[Cyst TGLS = 2,3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 6

SEX: Female

DAY ON TEST: 567

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

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
Kidney	Lymph Node - Mesenteric	Nose	Ovary
Pancreas	Parathyroid Gland	Peripheral Nerve	Salivary Glands
Skin	Spinal Cord	Stomach - Forestomach	Thymus
Thyroid Gland	Trachea	Urinary Bladder	

OBSERVATIONS

Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7]			
[Leukemia Mononuclear TGLS = 7]			
Heart	Atrium	Cardiomyopathy	Minimal
		Thrombosis	Moderate
[Thrombosis TGLS = 11]			
Liver	Centrilobular	Leukemia Mononuclear	
	Biliar Tract	Necrosis	Moderate
		Proliferation	Mild
		Vacuolization Cytoplasmic	Diffuse, Moderate
[Leukemia Mononuclear TGLS = 9,10]			
[Necrosis TGLS = 9,10]			
[Proliferation TGLS = 9,10]			
[Vacuolization Cytoplasmic TGLS = 9,10]			
Lung		Leukemia Mononuclear	
Lymph Node	Mandibular	Leukemia Mononuclear	
Mammary Gland	Duct	Cyst	
[Cyst TGLS = 3]			
Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
[Angiectasis TGLS = 12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 6

SEX: Female

DAY ON TEST: 567

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 12]

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6]

Stomach

Glandular

Ulcer

Mild

Uterus

Cervix

Cyst

Multiple

Polyp Stromal

[Polyp Stromal TGLS = 5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49	TRT#: 2	SEX: Female	DAY ON TEST: 731
	DOSE: UNTREATD CONTROL	DISP: Terminal Sacrifice	HISTO:

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
Islets, Pancreatic	Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric
Nose	Ovary	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Spleen
Stomach - Forestomach	Stomach - Glandular	Thymus	Trachea
Urinary Bladder			

OBSERVATIONS

Adrenal Gland	Medulla	Hyperplasia	Focal, Moderate
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver		Basophilic Focus	Multiple
	Biliar Tract	Proliferation	Moderate
[Basophilic Focus TGLS = 3]			
[Proliferation TGLS = 3]			
Mammary Gland	Duct	Cyst	
		Fibroadenoma	
[Cyst TGLS = 1]			
[Fibroadenoma TGLS = 2]			
Mesentery	Fat	Necrosis	Focal, Moderate
Pancreas		Atrophy	Focal, Mild
Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Thyroid Gland	C Cell	Adenoma	
Uterus	Cervix	Abscess	Mild
	Cervix	Cyst	

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 4

SEX: Female

DAY ON TEST: 703

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

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
Lung	Lymph Node - Mandibular	Lymph Node - Mesenteric	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder			

OBSERVATIONS

Liver		Basophilic Focus Necrosis	Mild
[Basophilic Focus TGLS = 10]	Centrilobular		
[Necrosis TGLS = 10]			
Mammary Gland	Duct	Cyst Fibroadenoma	
[Cyst TGLS = 1]			
[Fibroadenoma TGLS = 2]			
Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Angiectasis Cyst	Moderate
[Adenoma TGLS = 12]			
[Angiectasis TGLS = 12]			
[Cyst TGLS = 12]			
Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 8]			
Uterus		Cyst Sarcoma Stromal	
[Cyst TGLS = 7]			
[Sarcoma Stromal TGLS = 6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 4

SEX: Female

DAY ON TEST: 703

DOSE: 0.01%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 6

SEX: Female

DAY ON TEST: 730

DOSE: 0.005%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

Adrenal Gland - Medulla

Bone

Bone Marrow

Brain

Esophagus

Heart

Intestine Large - Cecum

Intestine Small - Duodenum

Intestine Small - Ileum

Intestine Small - Jejunum

Islets, Pancreatic

Lung

Lymph Node - Mandibular

Lymph Node - Mesenteric

Nose

Ovary

Parathyroid Gland

Peripheral Nerve

Salivary Glands

Skin

Spinal Cord

Spleen

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

MISSING

Clitoral Gland

OBSERVATIONS

Intestine Large

Colon

Cyst

Mild

Rectum

Parasite Metazoan

[Cyst TGLS = 2]

Kidney

Nephropathy

Chronic, Moderate

Liver

Basophilic Focus

Multiple

Granuloma

Multifocal, Minimal

Mammary Gland

Duct

Cyst

Focal, Mild

Pancreas

Atrophy

Pituitary Gland

Pars Distalis

Adenoma

Mild

Pars Distalis

Angiectasis

Uterus

Cervix

Abscess

Moderate

Cervix

Cyst

[Abscess TGLS = 1]

[Cyst TGLS = 1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

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:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex
Brain
Intestine Large - Colon
Intestine Small - Jejunum
Lymph Node - Mesenteric
Parathyroid Gland
Skin
Stomach - Glandular
Urinary Bladder

Adrenal Gland - Medulla
Clitoral Gland
Intestine Large - Rectum
Islets, Pancreatic
Nose
Peripheral Nerve
Spinal Cord
Thymus
Uterus

Bone
Esophagus
Intestine Small - Duodenum
Lung
Ovary
Pituitary Gland
Spleen
Thyroid Gland

Bone Marrow
Intestine Large - Cecum
Intestine Small - Ileum
Lymph Node - Mandibular
Pancreas
Salivary Glands
Stomach - Forestomach
Trachea

OBSERVATIONS

Heart
Kidney
Liver
Mammary Gland

Duct

Cardiomyopathy
Nephropathy
Granuloma
Cyst
Fibroadenoma

Minimal
Chronic, Mild
Multifocal, Minimal

[Cyst TGLS = 1]

[Fibroadenoma TGLS = 2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

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	Nose
Ovary	Pancreas	Parathyroid Gland	Peripheral Nerve
Salivary Glands	Skin	Spinal Cord	Stomach - Forestomach
Stomach - Glandular	Thymus	Trachea	Urinary Bladder

MISSING

Clitoral Gland	Pituitary Gland
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OBSERVATIONS

Adrenal Gland	Cortex Cortex Medulla	Degeneration Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	Fatty, Focal, Mild
Blood [Leukemia Mononuclear TGLS = 1]			
Heart		Cardiomyopathy	Mild
Kidney		Nephropathy	Chronic, Minimal
Liver	Centrilobular Biliar Tract	Leukemia Mononuclear Necrosis Proliferation	Mild Mild
[Leukemia Mononuclear TGLS = 7]			
Lung [Leukemia Mononuclear TGLS = 9]		Leukemia Mononuclear	
Lymph Node	Mandibular Mesenteric Pancreatic	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5]			
Mammary Gland	Duct	Cyst Fibroadenoma	
[Cyst TGLS = 3] [Fibroadenoma TGLS = 2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 4

SEX: Female

DAY ON TEST: 729

DOSE: 0.01%

DISP: Terminal Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 8]	Fat	Necrosis	Focal, Moderate
Spleen [Leukemia Mononuclear TGLS = 6]		Leukemia Mononuclear	
Thyroid Gland	C Cell	Adenoma	
Uterus [Cyst TGLS = 4]	Cervix	Cyst	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Gland - Cortex

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

Lymph Node - Mandibular

Lymph Node - Mesenteric

Nose

Ovary

Pancreas

Parathyroid Gland

Peripheral Nerve

Pituitary Gland

Salivary Glands

Skin

Spinal Cord

Stomach - Forestomach

Stomach - Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

OBSERVATIONS

Clitoral Gland

Hyperplasia

Moderate

Note: HYPERPLASIA TGLs = 1

Heart

Cardiomyopathy

Minimal

Intestine Large

Colon

Parasite Metazoan

Mild

[Parasite Metazoan TGLs = 6]

Kidney

Nephropathy

Chronic, Minimal

Liver

Basophilic Focus

Multiple

Developmental Malformation

Leukemia Mononuclear

[Developmental Malformation TGLs = 8]

[Leukemia Mononuclear TGLs = 7]

Lung

Leukemia Mononuclear

Mammary Gland

Duct

Cyst

Fibroadenoma

[Fibroadenoma TGLs = 2,3]

Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 5]

Uterus

Cervix

Abscess

Mild

Cervix

Cyst

[Abscess TGLs = 4]

[Cyst TGLs = 4]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05058-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Roxarsone

CAS Number: 121-19-7

Date Report Requested: 10/23/2014

Time Report Requested: 11:28:49

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 0.005%

DISP: Moribund Sacrifice

HISTO:

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE